

Manual of Carpentry

and Catalog of

**AMERICAN
NAILS, WIRE
BARBED WIRE
STAPLES**

**TACKS » NETTING
POULTRY FENCE, ETC.**

For Sale By

**WESTCHESTER WHOLESALE
WAREHOUSE
New Rochelle, N. Y.**

American Steel & Wire Company

SUBSIDIARY OF UNITED STATES STEEL CORPORATION



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Catalogue of
American
NAILS, WIRE,
BARBED WIRE,
STAPLES

Tacks, Poultry Fence, Netting, etc.

American
QUALITY PRODUCTS
Steel & Wire Company

Manual of Carpentry Section
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Miscellaneous Nails and Brads in Packages

FLAT HEAD WIRE NAILS

in Orange and
Black packages



**WIRE
BRADS**
.. in Green
and Black
packages.



LARGE MARKINGS

AT A GLANCE YOU
DETERMINE BOTH SIZE and STYLE

List Prices of Miscellaneous Wire Nails and Wire Brads

(For Pearson Coated Nail List see Pages 46 to 52.)

Subject to change without notice.

Per Pound for 1, 5 or 10-Pound Package.

In ordering, state whether flat heads or brad heads
are wanted.

No.	$\frac{1}{4}$ -Inch	No.	$\frac{1}{2}$ -Inch	No.	$\frac{3}{8}$ -Inch		$\frac{1}{4}$ and $\frac{1}{2}$ -Inch	No.	$\frac{2}{3}$ -Inch				
20.	\$1.80		Continued	8.		\$0.33	6 to 12	...	\$0.29				
21.	2.00	20.		9.		.33	13	...	.30			
22.	2.20	21.		10.		.33	14	...	.31			
23.	2.40	22.		11.		.33	15	...	.32			
24.	2.55	23.		12.		.33	16	...	.34			
		24.		13.		.34	17	...	.34			
No.	$\frac{1}{4}$ -Inch	No.	$\frac{5}{8}$ -Inch	14.		.35	18	...	.39			
19.	\$1.00	12.		15.		.36			No. $\frac{2}{3}$ -Inch				
20.	1.25		\$0.43	16.		.39			3 to 10	...	\$0.26		
21.	1.55	13.		17.		.43	1 $\frac{1}{2}$ and 1 $\frac{5}{8}$ -Inch		11.	...	.27	
22.	1.90	14.		18.		.45	No.		12.	...	.27	
23.	2.15	15.		19.		.56	4 to 13	...	\$0.29		13.28
24.	2.35	16.		20.		.67	14.	...	.30	No. $\frac{2}{3}$ -Inch		
25.	2.55	17.		21.		.52	15.	...	.31	3 to 10	...	\$0.26
26.	3.10	18.		22.		.58	No. 1-Inch		16.	...	.33	
No.	$\frac{3}{8}$ -Inch	20.		23.		.75	7 to 12	...	\$0.30	17.	...	.38
18.	\$0.80	21.		24.		.85	13	...		12.	...	.27
19.	.90	22.		25.		1.10	14.	...	.32	No. 3-Inch		
20.	1.00	23.		26.		1.45	15.	...	.33	3 to 10	...	\$0.25
21.	1.25	24.		27.		1.65	16.	...	.36	4 to 13	...	\$0.28
22.	1.55	No. $\frac{3}{4}$ -Inch		28.		1.75	17.	...	.40	14.	...	.29
23.	1.95	10.		29.		1.85	18.	...	.43	15.	...	.30
24.	2.15	11.		30.		2.00	19.	...	.53	16.	...	.32
25.	2.40	12.		31.		.36	20.	...	.64	17.	...	.38
26.	2.80	13.		32.		.38	No. $\frac{1}{4}$ -Inch			11.	...	.26
No.	$\frac{1}{2}$ -Inch	14.		33.		.38	7 to 12	...	\$0.30	No. 2-Inch			
14.	\$0.55	15.		34.		.42	13.	...	.31	3 to 10	...	\$0.27
15.	.55	16.		35.		.43	14.	...	.32	3 to 10	...	\$0.25
16.	.55	17.		36.		.46	15.	...	.32	11.	...	.26
17.	.55	18.		37.		.52	16.	...	.35	13.	...	.28
18.	.60	19.		38.		.60	17.	...	.40	14.	...	.29
19.	.65	20.		39.		.70	18.	...	.43	15.	...	.30
	.75	21.		40.		.85	19.	...	.53	16.	...	.35
										11.	...	.26

See Quantity Extras on Less Than 100 Pound
Items Not Carried in Stock

List of Extras and Deductions from List Prices

Subject to Discount

Add to list 4 cents per pound for cement coating.

Add to list 6 cents per pound for $\frac{1}{2}$ -pound paper boxes.

Add to list 12 cents per pound for $\frac{1}{4}$ -pound paper boxes.

Add to list 3 cents per pound for barbing.

Add to list 3 cents per pound for annealing.

Add to list 3 cents per pound for bluing.

Add to list 3 cents per pound for Special Heads or Headless.

Add to list 3 cents per pound for Needle Points or any Special Points.

For 10-pound wooden boxes add to net prices 50 cents per 100 pounds.

Deduction for 25 and 50-pound wooden boxes, 2 cents per pound.

Deduction for 100-pound kegs, 4 cents per pound.

For lengths not listed, use list price for same gauge in nearest shorter length.

For nails, finer than full gauge, apply list price of same length in next finer gauge. For example, for No. $18\frac{1}{2}$ gauge use No. 19, etc.

Nails heavier than listed at special net prices, according to quantity.

Galvanizing, tinning, brass plating, coppering nails, at special prices.

Stock items of Bright Miscellaneous Wire Nails and Brads regularly furnished in any quantity—kegs, wooden boxes and papers.

BRIGHT—FLAT HEAD—SMOOTH WIRE NAILS—DIAMOND POINT

No. 21	$\frac{3}{8} \times 21$	$\frac{5}{8} \times 18$	$\frac{3}{4} \times 16$	$\frac{5}{8} \times 14$	$\frac{3}{4} \times 12$
	$\frac{1}{2} \times 21$	No. 18	$\frac{7}{8} \times 18$	$\frac{7}{8} \times 16$	$\frac{3}{4} \times 14$
	$\frac{3}{8} \times 20$			$\frac{7}{8} \times 14$	$\frac{7}{8} \times 12$
No. 20	$\frac{5}{8} \times 20$	$\frac{1}{2} \times 18$	No. 16	$\frac{1}{2} \times 16$	1 x 12
	$\frac{1}{2} \times 20$	$\frac{1}{4} \times 18$		$\frac{1}{4} \times 16$	$\frac{1}{4} \times 12$
	$\frac{3}{4} \times 20$	$\frac{1}{2} \times 18$		$\frac{1}{2} \times 16$	$\frac{1}{2} \times 12$
	$\frac{7}{8} \times 20$	$\frac{1}{2} \times 17$		$\frac{1}{4} \times 16$	$\frac{3}{4} \times 12$
1 x 20	$\frac{5}{8} \times 17$		2 x 16	2 x 14	$2\frac{1}{2} \times 12$
	$\frac{3}{8} \times 19$	No. 17	$\frac{5}{8} \times 17$	$\frac{3}{4} \times 13$	No. 2 x 11
	$\frac{1}{2} \times 19$		$\frac{3}{4} \times 17$	$\frac{7}{8} \times 13$	11 $2\frac{1}{2} \times 11$
No. 19	$\frac{5}{8} \times 19$	1 x 17	No. 15	$\frac{7}{8} \times 15$	3 x 11
	$\frac{3}{4} \times 19$	$\frac{1}{4} \times 17$		$\frac{1}{4} \times 13$	No. 2 x 10
	$\frac{7}{8} \times 19$	$\frac{1}{2} \times 17$		$\frac{1}{2} \times 13$	10 $2\frac{1}{2} \times 10$
No. 18	$\frac{3}{8} \times 18$	No. 16	2 x 16	$2\frac{1}{2} \times 13$	3 x 10
	$\frac{1}{2} \times 18$		2 x 15		
				3 x 13	

BRIGHT—FLAT HEAD—SMOOTH NAILS—NEEDLE POINT

No. 21	$\frac{3}{8} \times 21$	1 x 19	No. 18	$\frac{7}{8} \times 17$	2 x 16	No. 14	$1\frac{1}{4} \times 14$
	$\frac{1}{2} \times 21$	$\frac{5}{8} \times 18$		$\frac{1}{2} \times 17$	$\frac{3}{4} \times 15$	14	$1\frac{1}{2} \times 14$
No. 20	$\frac{5}{8} \times 20$	No. 18	$\frac{3}{4} \times 18$	$\frac{1}{2} \times 17$	$\frac{7}{8} \times 15$		$1\frac{3}{4} \times 14$
	$\frac{3}{4} \times 20$		$\frac{7}{8} \times 18$		No. 1	x 15	2 x 14
	$\frac{3}{8} \times 19$		1 x 18	$\frac{5}{8} \times 16$	15	$1\frac{1}{4} \times 15$	$2\frac{1}{2} \times 14$
	$\frac{1}{2} \times 19$		$\frac{1}{4} \times 18$	$\frac{3}{4} \times 16$		$1\frac{1}{2} \times 15$	$1\frac{1}{4} \times 13$
No. 19	$\frac{5}{8} \times 19$	No. 17	$\frac{1}{2} \times 17$	$\frac{7}{8} \times 16$	No. 1	x 16	$1\frac{1}{2} \times 13$
	$\frac{3}{4} \times 19$			$\frac{1}{4} \times 16$	13	$1\frac{3}{4} \times 13$	
	$\frac{7}{8} \times 19$				No. 14	$\frac{3}{4} \times 14$	2 x 13
						$\frac{7}{8} \times 14$	$2\frac{1}{2} \times 13$
						1 x 14	

BRIGHT—WIRE BRADS—DIAMOND POINT

No. 24	$\frac{3}{8} \times 24$	No. 19	$\frac{3}{4} \times 19$	No. 17	$1\frac{1}{2} \times 17$	1 x 14	$1\frac{1}{2} \times 12$
No. 22	$\frac{3}{8} \times 22$		1 x 19		$\frac{5}{8} \times 16$	$1\frac{1}{2} \times 14$	No. 2 x 12
22	$\frac{1}{2} \times 22$		$\frac{1}{2} \times 18$		$\frac{3}{4} \times 16$	No. 14	$2\frac{1}{4} \times 14$
No. 21	$\frac{3}{8} \times 21$		$\frac{5}{8} \times 18$		$\frac{7}{8} \times 16$	No. 1	x 14
	$\frac{1}{2} \times 21$		$\frac{3}{4} \times 18$	No. 16	$1\frac{1}{4} \times 16$	$2\frac{1}{4} \times 14$	$2\frac{3}{4} \times 12$
	$\frac{3}{4} \times 21$	No. 18	$\frac{7}{8} \times 18$		$1\frac{1}{2} \times 16$	3 x 14	No. 2 x 11
			1 x 18				
No. 20	$\frac{3}{8} \times 20$		$\frac{1}{4} \times 18$		$1\frac{3}{4} \times 16$	$1\frac{1}{2} \times 13$	11 $2\frac{1}{2} \times 11$
	$\frac{1}{2} \times 20$		$\frac{1}{2} \times 18$		2 x 16	$1\frac{3}{4} \times 13$	3 x 11
No. 19	$\frac{5}{8} \times 20$		$\frac{5}{8} \times 17$	No. 15	$1\frac{1}{2} \times 15$	No. 2	x 13
	$\frac{3}{4} \times 20$	No. 17	$\frac{7}{8} \times 17$		$1\frac{3}{4} \times 15$	13	$2\frac{1}{4} \times 13$
	$\frac{7}{8} \times 19$		1 x 17		3 x 13	10	3 x 10
					2 x 15	4	x 10

BRIGHT—WIRE BRADS—NEEDLE POINT

No. 20	$\frac{3}{8} \times 20$		$\frac{3}{4} \times 19$		$1\frac{1}{4} \times 18$	No. 16	$\frac{5}{8} \times 16$	$1\frac{1}{4} \times 16$
	$\frac{1}{2} \times 20$	No. 18	$\frac{1}{2} \times 18$	No. 17	$\frac{5}{8} \times 17$	16	$\frac{3}{4} \times 16$	No. 1 x 15
	$\frac{5}{8} \times 20$		$\frac{5}{8} \times 18$		$\frac{3}{4} \times 17$		$\frac{7}{8} \times 16$	15 $1\frac{1}{4} \times 15$
	$\frac{3}{4} \times 20$		$\frac{3}{4} \times 18$		$\frac{7}{8} \times 17$			$1\frac{1}{2} \times 15$
No. 19	$\frac{1}{2} \times 19$		$\frac{7}{8} \times 18$		1 x 17			
	$\frac{5}{8} \times 19$	1 x 18			$1\frac{1}{4} \times 17$			

All Other Sizes and Styles at Following Quantity Extras for Lots of Less Than 100 Pounds of an Item.

10 lbs. to 24 lbs., inc.	\$1.50 per item
25 lbs. to 49 lbs., inc.	1.25 per item
50 lbs. to 74 lbs., inc.	1.00 per item
75 lbs. to 99 lbs., inc.	.75 per item

These extras apply over the 100 pound price.

On special items not carried in stock no orders for less than 10 pounds will be accepted.

Quantity Extras effective as of Oct. 30, 1931

Miscellaneous Wire Nails and Brads Tinned—Galvanized—Coppered Blued and Pearson (Cement) Coated

On items of less than 100 pounds, the following extras will be charged in addition to regular finishing extra. These are in addition to quantity extras quoted above.

10 to 19 pounds, inc.	\$3.50 per 100 lbs.
20 to 24 pounds, inc.	1.75 per 100 lbs.
25 to 49 pounds, inc.	1.50 per 100 lbs.
50 to 99 pounds, inc.	1.00 per 100 lbs.

Standard Nail Card

Effective December 1, 1927

Cancelling all previous issues

Extras on Standard Wire Nails in Kegs

Common Nails		Common Brads		Barbed Roofing Nails		Clinch Nails Bright		Sterilized Lath Nails	
2d.	\$1.65	2d.	\$1.70	Regular Head 3/4-inch	\$1.55	2d.	\$1.55	2d.	\$2.55
3d.	1.15	3d.	1.20	5/8-inch	1.30	3d.	1.35	2d Light . . .	2.75
4d.	.80	4d.	.85	1 -inch	1.20	4d.	1.10	3d	1.95
5d.	.70	5d.	.75	1 1/4-inch	1.10	6d.	.90	3d Light . . .	2.50
6d.	.60	6d.	.65	1 1/2-inch . . . . .	.95	7d.	.85	Barrel Nails	
7d.	.55	7d.	.60	1 3/4-inch . . . . .	.90	8d.	.80	5/8-inch	\$2.45
8d.	.50	8d.	.55	1 1/4-inch . . . . .	.95	9d.	.75	5/8-inch	2.10
9d.	.45	9d.	.50	1 1/2-inch . . . . .	.80	10d.	.70	5/8-inch	1.45
10d.	.40	10d.	.45	1 3/4-inch . . . . .	.75	12d.	.65	1 -inch	1.25
12d.	.35	12d.	.40	2 -inch . . . . .	.65	16d.	.60	1 1/4-inch	1.20
16d.	.30	16d.	.35			20d.	.55	1 1/2-inch	1.15
20d.	.25	20d.	.30					Barbed Car Nails	1 1/2-inch
30d.	.25	30d.	.30			5d.	\$0.60	Bright	.95
40d.	.25	40d.	.30			6d.	.55	Light	1 1/2-inch
50d.	.25	50d.	.30			7d.	.45	Heavy	.90
60d.	.25	60d.	.30			8d.	.45		
Casing Nails		Shingle Nails		9d.	.40	4d.	\$1.05	Berry Box Nails	
2d.	\$1.70	3d.	\$1.05	10d.	.40	5d.	.85	Smooth	
3d.	1.20	3d.	\$1.05	12d.	.35	6d.	.80	No. 16	No. 17
4d.	1.05	3 1/4d.	.85	16d.	.30	7d.	.70	3/4-in.	\$2.80
5d.	.95	4d.	.80	20d.	.25	8d.	.70	7/8-in.	2.55
6d.	.70	5d.	.70			9d.	.65	.65	2.75
7d.	.65	6d.	.65			10d.	.65	1 1/4-in.	2.35
8d.	.60					12d.	.60	1 1/2-in.	2.30
9d.	.55					16d.	.55	1 1/4-in.	2.50
10d.	.50					20d.	.50	1 1/4-in.	2.25
12d.	.45							Spikes	
16d.	.40							10d.	\$0.40
20d.	.30							12d.	.35
30d.	.30							16d.	.30
40d.	.30							20d.	.25
Flooring Brads		Smooth Box Nails							
6d.	\$0.65	8d.	.55	4d., \$0.95	\$0.95	20d.	.50		
7d.	.60	9d.	.50	6d.	.80	30d.	.50		
8d.	.55	10d.	.45	8d.	.75	40d.	.50		
9d.	.50	12d.	.40	10d.	.70	50d.	.50		
10d.	.45	16d.	.35	12d.	.65	60d.	.50		
12d.	.40	20d.	.25	16d.	.60				
16d.	.35	30d.	.25	20d.	.55				
20d.	.30								
Boat Nails		Siding Nails							
Bright		Same advance as Smooth Box Nails							
Light	Heavy								
4d.	\$0.95	\$0.95							
6d.	.80	.80							
8d.	.75	.75							
10d.	.70	.80	2d.	\$1.20					
12d.	.65	.75	3d.	1.00					
16d.	.60	.70	4d.	.85					
20d.	.55	.65	5d.	.75					
Boat Nails		Slating Nails							
Bright									
Light	Heavy								
4d.	\$0.95	\$0.95							
6d.	.80	.80							
8d.	.75	.75	2d.	\$1.20					
10d.	.70	.80	3d.	1.00					
12d.	.65	.75	4d.	.85					
16d.	.60	.70	5d.	.75					
20d.	.55	.65	6d.	.65					
Boat Nails		Fining Nails							
Bright									
Light	Heavy								
4d.	\$0.95	\$0.95							
6d.	.80	.80							
8d.	.75	.75	2d.	\$2.20					
10d.	.70	.80	3d.	2.20					
12d.	.65	.75	4d.	2.40					
16d.	.60	.70	5d.	1.60					
20d.	.55	.65	6d.	2.15					
Boat Nails		Fine Nails							
Bright									
Light	Heavy								
4d.	\$0.95	\$0.95							
6d.	.80	.80							
8d.	.75	.75	2d.	\$2.20					
10d.	.70	.80	3d.	2.20					
12d.	.65	.75	4d.	2.40					
16d.	.60	.70	5d.	1.60					
20d.	.55	.65	6d.	2.15					
Boat Nails		Barbed Dowel Pins							
Bright									
Light	Heavy								
4d.	\$0.95	\$0.95							
6d.	.80	.80							
8d.	.75	.75	2d.	\$2.40					
10d.	.70	.80	3d.	1.75					
12d.	.65	.75	4d.	1.75					
16d.	.60	.70	5d.	1.50					
20d.	.55	.65	6d.	1.50					
Boat Nails		Barbed Dowel Pins							
Bright									
Light	Heavy								
4d.	\$0.95	\$0.95							
6d.	.80	.80							
8d.	.75	.75	2d.	\$2.40					
10d.	.70	.80	3d.	1.75					
12d.	.65	.75	4d.	1.75					
16d.	.60	.70	5d.	1.50					
20d.	.55	.65	6d.	1.50					
Boat Nails		Barbed Dowel Pins							
Bright									
Light	Heavy								
4d.	\$0.95	\$0.95							
6d.	.80	.80							
8d.	.75	.75	2d.	\$2.40					
10d.	.70	.80	3d.	1.75					
12d.	.65	.75	4d.	1.75					
16d.	.60	.70	5d.	1.50					
20d.	.55	.65	6d.	1.50					
Boat Nails		Barbed Dowel Pins							
Bright									
Light	Heavy								
4d.	\$0.95	\$0.95							
6d.	.80	.80							
8d.	.75	.75	2d.	\$2.40					
10d.	.70	.80	3d.	1.75					
12d.	.65	.75	4d.	1.75					
16d.	.60	.70	5d.	1.50					
20d.	.55	.65	6d.	1.50					
Boat Nails		Barbed Dowel Pins							
Bright									
Light	Heavy								
4d.	\$0.95	\$0.95							
6d.	.80	.80							
8d.	.75	.75	2d.	\$2.40					
10d.	.70	.80	3d.	1.75					
12d.	.65	.75	4d.	1.75					
16d.	.60	.70	5d.	1.50					
20d.	.55	.65	6d.	1.50					
Boat Nails		Barbed Dowel Pins							
Bright									
Light	Heavy								
4d.	\$0.95	\$0.95							
6d.	.80	.80							
8d.	.75	.75	2d.	\$2.40					
10d.	.70	.80	3d.	1.75					
12d.	.65	.75	4d.	1.75					
16d.	.60	.70	5d.	1.50					
20d.	.55	.65	6d.	1.50					
Boat Nails		Barbed Dowel Pins							
Bright									
Light	Heavy								
4d.	\$0.95	\$0.95							
6d.	.80	.80							
8d.	.75	.75	2d.	\$2.40					
10d.	.70	.80	3d.	1.75					
12d.	.65	.75	4d.	1.75					
16d.	.60	.70	5d.	1.50					
20d.	.55	.65	6d.	1.50					
Boat Nails		Barbed Dowel Pins							
Bright									
Light	Heavy								
4d.	\$0.95	\$0.95							
6d.	.80	.80							
8d.	.75	.75	2d.	\$2.40					
10d.	.70	.80	3d.	1.75					
12d.	.65	.75	4d.	1.75					
16d.	.60	.70	5d.	1.50					
20d.	.55	.65	6d.	1.50					
Boat Nails		Barbed Dowel Pins							
Bright									
Light	Heavy								
4d.	\$0.95	\$0.95							
6d.	.80	.80							
8d.	.75	.75	2d.	\$2.40					
10d.	.70	.80	3d.	1.75					
12d.	.65	.75	4d.	1.75					
16d.	.60	.70	5d.	1.50					
20d.	.55	.65	6d.	1.50					
Boat Nails		Barbed Dowel Pins							
Bright									
Light	Heavy								
4d.	\$0.95	\$0.95							
6d.	.80	.80							
8d.	.75	.75	2d.	\$2.40					
10d.	.70	.80	3d.	1.75					
12d.	.65	.75	4d.	1.75					
16d.	.60	.70	5d.	1.50					
20d.	.55	.65	6d.	1.50					
Boat Nails		Barbed Dowel Pins							
Bright									
Light	Heavy								
4d.	\$0.95	\$0.95							
6d.	.80	.80							
8d.	.75	.75	2d.	\$2.40					
10d.	.70	.80	3d.	1.75					
12d.	.65	.75	4d.	1.75					
16d.	.60	.70	5d.	1.50					
20d.	.55	.65							

Special Extras on Standard Wire Nails

(Except as provided above)

Annealed Nails, 25c per 100 lbs. extra.

Blued Nails, 35c per 100 lbs. extra.

Barb Nails, 35c per 100 lbs. Extra.
Barbing Nails, 25c per 100 lbs.

Barbless Nails, 20c per 100 lbs.
Special Heads, 15c per 100 lbs. extra.

Special Points, 15c per 100 lbs. ext.

Galvanizing, prices on application.

Common Nails



20d 16d 12d 10d 9d 8d 7d 6d

Size	Length and Gauge	Extra Over Base Price	Approx. No. to Lb.
2d	1 inch No. 15	\$1.65	876
3d	1 1/4 " " 14	1.15	568
4d	1 1/2 " " 12 1/2	.80	316
5d	1 3/4 " " 12 1/2	.70	271
6d	2 " " 11 1/2	.60	181
7d	2 1/4 " " 11 1/2	.55	161
8d	2 1/2 " " 10 1/4	.50	106
9d	2 3/4 " " 10 1/4	.45	96
10d	3 " " 9	.40	69
12d	3 1/4 " " 9	.35	63
16d	3 1/2 " " 8	.30	49
20d	4 " " 6	.25	31
30d	4 1/2 " " 5	.25	24
40d	5 " " 4	.25	18
50d	5 1/2 " " 3	.25	14
60d	6 " " 2	.25	11

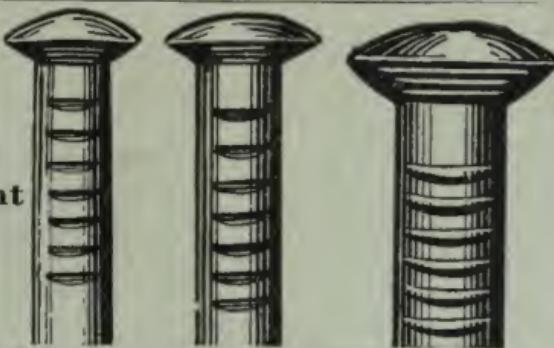
American Steel
& Wire Co.'s Steel
Wire Gauge

Illustrations
Actual Size

Flat Head
Diamond Point

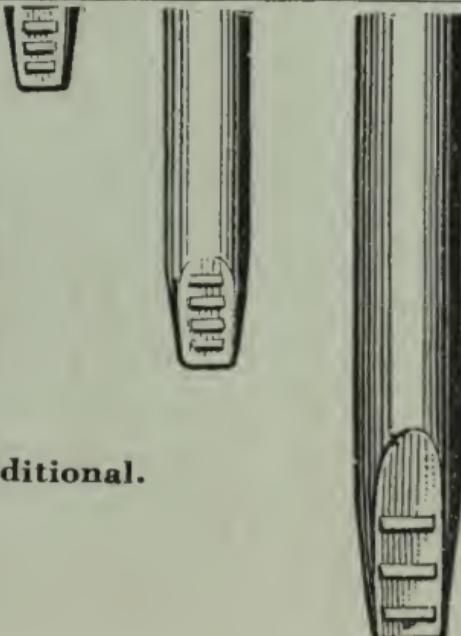
Barbed nails furnished in all sizes
and styles at 25c per 100 lbs. over
smooth.

Round Wire Spikes
Oval Head, Chisel Point

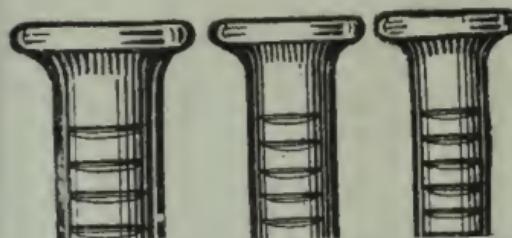


Am. Steel & Wire Co.'s Steel Wire Gauge

Length and Gauge	Extra Over Base Price	Degree of Countersunk	Head Rad.	Dia. Head	Approx. No. to Pound
3 inch No. 6	\$0.40	123	7/16	13 3/32	41
3 1/4 " " 6	.35				38
3 1/2 " " 5	.30	123	7/16	7/16	30
4 " " 4	.25	123	7/16	15 3/32	23
4 1/2 " " 3	.25	123	7/16	1/2	17
5 " " 2	.25	123	7/16	17 3/32	13
5 1/2 " " 1	.25				10
6 " " 1	.25	123	7/16	9/16	9
7 " 5/16 inch	.25	123	5/8	5/8	6
8 " 3/8 "	.35	123	3/4	3/4	4
9 " 3/8 "	.35				3 1/2
10 " 3/8 "	.45				3
12 " 3/8 "	.45				2 1/2



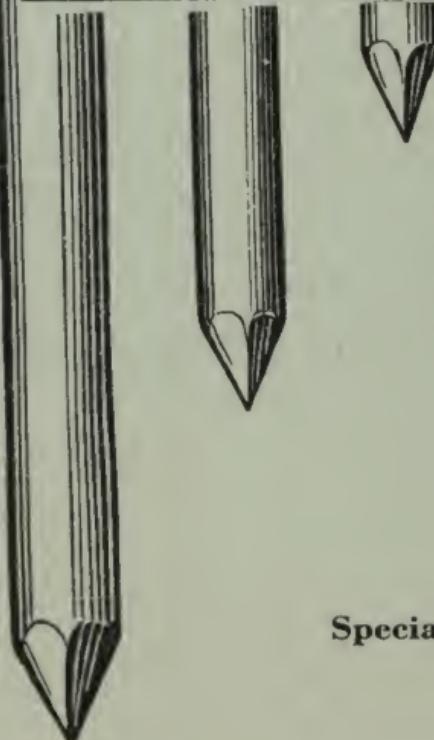
Special Gauges, 10c additional.



Round Wire Spikes
Flat Head, Diamond Point

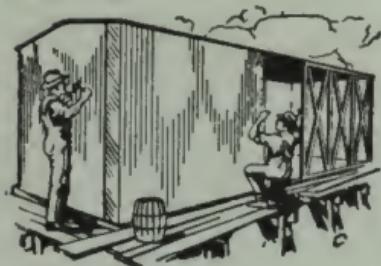
Am. Steel & Wire Co.'s Steel Wire Gauge

Length and Gauge	Extra Over Base Price	Degree of Counter- sunk	Diam. Head	Approx. No. to Pound
3 inch No. 6	\$0.40	123	13/32	41
3 1/4 " " 6	.35			38
3 1/2 " " 5	.30	123	7/16	30
4 " " 4	.25	123	15/32	23
4 1/2 " " 3	.25	123	1/2	17
5 " " 2	.25	123	17/32	13
5 1/2 " " 1	.25			10
6 " " 1	.25	123	9/16	9
7 " 5/16 inch	.25	123	5/8	6
8 " 3/8 "	.35	123	3/4	4
9 " 3/8 "	.35			3 1/2
10 " 3/8 "	.45			3
12 " 3/8 "	.45			2 1/2



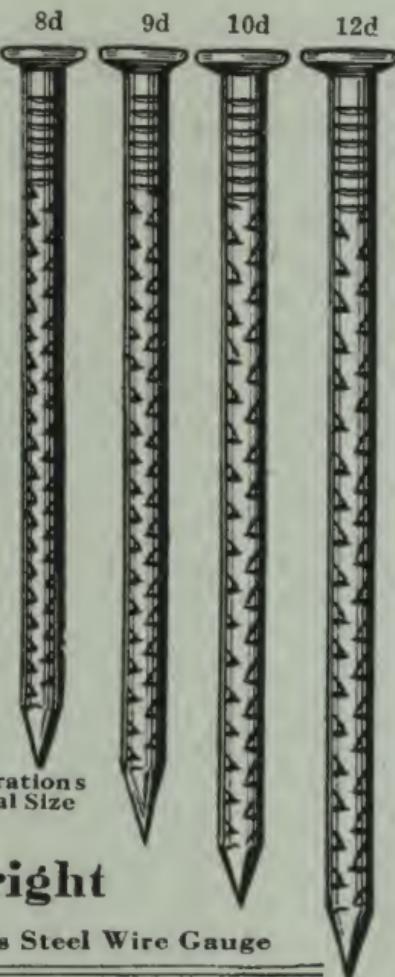
Special Gauges, 10c additional.

Barbed Car Nails
Flat Head, Slightly
Countersunk
Diamond Point



In ordering Car Nails
 be sure to specify whether
 Light or Heavy, Annealed
 or Bright, Oval or Flat
 Head.

Illustrations
 Actual Size



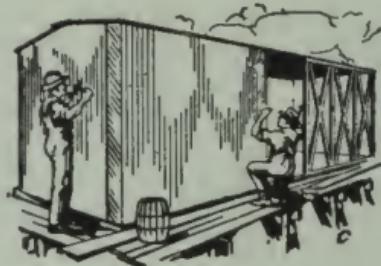
Light, Bright

American Steel & Wire Co.'s Steel Wire Gauge

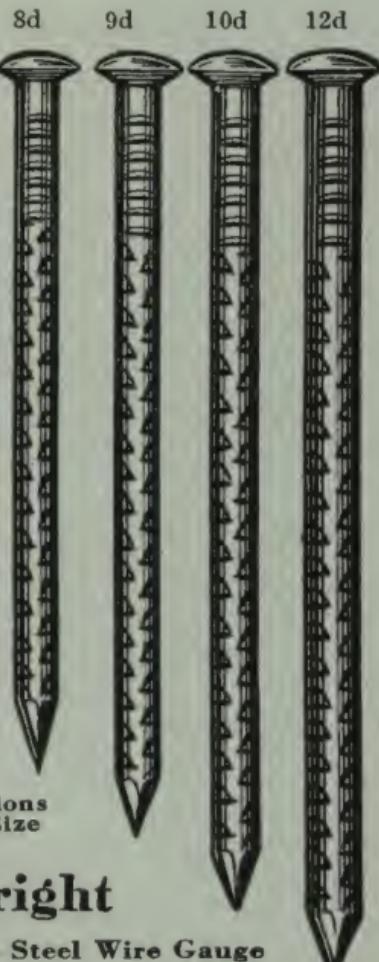
Size	Length and Gauge		Extra Over Base Price	Deg. Csk.	Dia. Head	Approx. No. to Lb.	
4d	1 1/2	inch	No. 12	\$1.05	123	1/4	274
5d	1 3/4	"	" 10	.85	123	9/32	142
6d	2	"	" 10	.80	123	9/32	124
7d	2 1/4	"	" 9	.70	123	5/16	92
8d	2 1/2	"	" 9	.70	123	5/16	82
9d	2 3/4	"	" 8	.65	123	11/32	62
10d	3	"	" 8	.65	123	11/32	57
12d	3 1/4	"	" 7	.60	123	3/8	50
16d	3 1/2	"	" 7	.55	123	3/8	43
20d	4	"	" 6	.50	123	13/32	31
30d	4 1/2	"	" 6	.50	123	13/32	28
40d	5	"	" 5	.50	123	7/16	21
50d	5 1/2	"	" 4	.50	123	15/32	17
60d	6	"	" 4	.50	123	15/32	15

Barbed Car Nails

**Oval Head, Slightly
Countersunk
Diamond Point**



In ordering Car Nails
be sure to specify whether
Light or Heavy, Annealed
or Bright, Oval or Flat
Head.



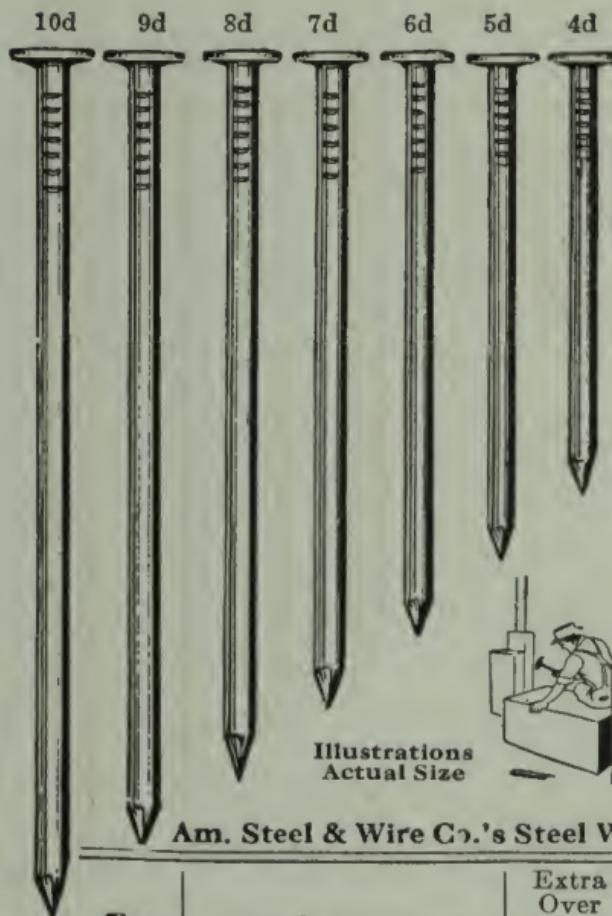
Illustrations
Actual Size

Heavy, Bright

American Steel & Wire Co.'s Steel Wire Gauge

Size	Length and Gauge		Extra Over Base Price	Deg. Csk.	Dia. Head	Approx. No. to Lb.
4d	1 1/2 inch	No. 10	\$0.95	123	9/32	165
5d	1 3/4 "	" 9	.80	123	5/16	118
6d	2 "	" 9	.75	123	5/16	103
7d	2 1/4 "	" 8	.70	123	11/32	76
8d	2 1/2 "	" 8	.70	123	11/32	69
9d	2 3/4 "	" 7	.65	123	3/8	54
10d	3 "	" 7	.65	123	3/8	50
12d	3 1/4 "	" 6	.60	123	1 1/32	42
16d	3 1/2 "	" 6	.55	123	1 1/32	35
20d	4 "	" 5	.50	123	15/32	26
30d	4 1/2 "	" 5	.50	123	7/16	24
40d	5 "	" 4	.50	123	1 1/32	18
50d	5 1/2 "	" 3	.50	123	1/2	15
60d	6 "	" 3	.50	123	1/2	13

Smooth Box Nails



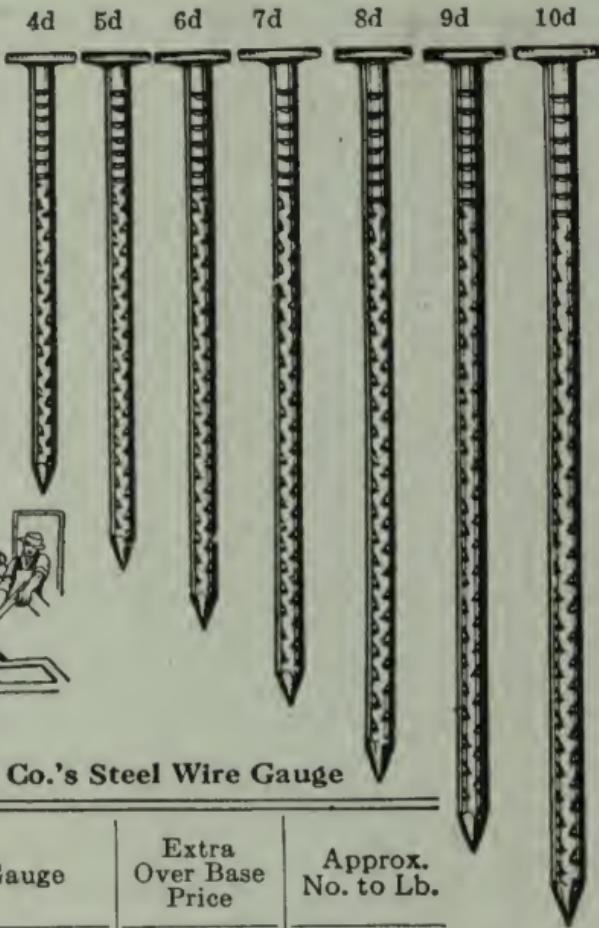
Am. Steel & Wire Co.'s Steel Wire Gauge

Size	Length and Gauge	Extra Over Base Price	Dia. Head	Approx. No. to Lb.
2d	1 inch No. 15 $\frac{1}{2}$	\$1.65	$\frac{3}{16}$	1010
3d	1 $\frac{1}{4}$ " " 14 $\frac{1}{2}$	1.15	$\frac{7}{32}$	635
4d	1 $\frac{1}{2}$ " " 14	1.00	$\frac{7}{32}$	473
5d	1 $\frac{3}{4}$ " " 14	.90	$\frac{7}{32}$	406
6d	2 " " 12 $\frac{1}{2}$	.65	$\frac{17}{64}$	236
7d	2 $\frac{1}{4}$ " " 12 $\frac{1}{2}$	.60	$\frac{17}{64}$	210
8d	2 $\frac{1}{2}$ " " 11 $\frac{1}{2}$	.55	$\frac{19}{64}$	145
9d	2 $\frac{3}{4}$ " " 11 $\frac{1}{2}$	.50	$\frac{19}{64}$	132
10d	3 " " 10 $\frac{1}{2}$	.45	$\frac{5}{16}$	94
12d	3 $\frac{1}{4}$ " " 10 $\frac{1}{2}$	.40	$\frac{5}{16}$	88
16d	3 $\frac{1}{2}$ " " 10	.35	$\frac{11}{32}$	71
20d	4 " " 9	.25	$\frac{3}{8}$	52
30d	4 $\frac{1}{2}$ " " 9	.25	$\frac{3}{8}$	46
40d	5 " " 8	.25	$\frac{13}{32}$	35

Barbed Box Nails

**Large Flat Head
Diamond Point**

Illustrations
Actual Size



Am. Steel & Wire Co.'s Steel Wire Gauge

Size	Length and Gauge		Extra Over Base Price	Approx. No. to Lb.
2d	1	inch	No. 15½	\$1.90
3d	1¼	"	" 14½	1.40
4d	1½	"	" 14	1.25
5d	1¾	"	" 14	1.15
6d	2	"	" 12½	.90
7d	2¼	"	" 12½	.85
8d	2½	"	" 11½	.80
9d	2¾	"	" 11½	.75
10d	3	"	" 10½	.70
12d	3¼	"	" 10½	.65
16d	3½	"	" 10	.60
20d	4	"	" 9	.50
30d	4½	"	" 9	.50
40d	5	"	" 8	.50

Casing Nails

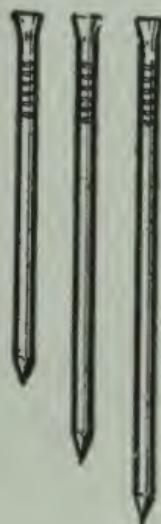


**Deep Countersunk Head,
Diamond Point**

Am. Steel & Wire Co.'s Steel Wire Gauge

Size	Length and Gauge	Extra Over Base Price	Degree of Countersunk	Dia. Head Ga.	Apprx. No. to Lb.
2d	1 inch No. 15 $\frac{1}{2}$	\$1.70	32	12 $\frac{1}{2}$	1010
3d	1 $\frac{1}{4}$ " 14 $\frac{1}{2}$	1.20	32	11 $\frac{1}{2}$	635
4d	1 $\frac{1}{2}$ " 14	1.05	32	11	473
5d	1 $\frac{3}{4}$ " 14	.95	32	11	406
6d	2 " 12 $\frac{1}{2}$	.70	32	9 $\frac{1}{2}$	236
7d	2 $\frac{1}{4}$ " 12 $\frac{1}{2}$	.65	32	9 $\frac{1}{2}$	210
8d	2 $\frac{1}{2}$ " 11 $\frac{1}{2}$	.60	32	8 $\frac{1}{2}$	145
9d	2 $\frac{3}{4}$ " 11 $\frac{1}{2}$	.55	32	8 $\frac{1}{2}$	132
10d	3 " 10 $\frac{1}{2}$	.50	32	7 $\frac{1}{2}$	94
12d	3 $\frac{1}{4}$ " 10 $\frac{1}{2}$	.45	32	7 $\frac{1}{2}$	87
16d	3 $\frac{1}{2}$ " 10	.40	32	7	71
20d	4 " 9	.30	32	6	52
30d	4 $\frac{1}{2}$ " 9	.30	32	6	46
40d	5 " 8	.30	32	5	35

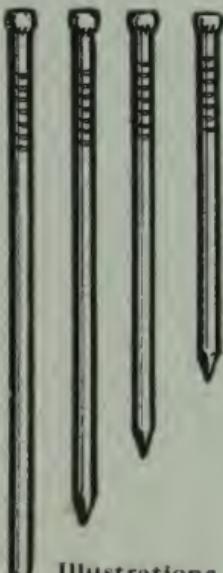
3d 4d 5d



6d 5d 4d 3d

Finishing Nails Brad Head, Diamond Point

Am. Steel & Wire Co.'s Steel Wire Gauge



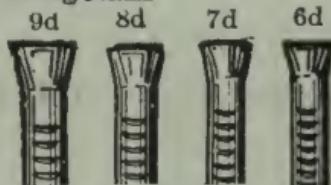
Size	Length and Gauge	Extra Over Base Price	Dia. Head Ga.	Approx. No. to Lb.
2d	1 inch No. 16 $\frac{1}{2}$	\$2.25	13 $\frac{1}{2}$	1351
3d	1 $\frac{1}{4}$ " 15 $\frac{1}{2}$	1.60	12 $\frac{1}{2}$	807
4d	1 $\frac{1}{2}$ " 15	1.45	12	584
5d	1 $\frac{3}{4}$ " 15	1.35	12	500
6d	2 " 13	.80	10	309
7d	2 $\frac{1}{4}$ " 13	.75	10	238
8d	2 $\frac{1}{2}$ " 12 $\frac{1}{2}$	.65	9 $\frac{1}{2}$	189
9d	2 $\frac{3}{4}$ " 12 $\frac{1}{2}$	.60	9 $\frac{1}{2}$	172
10d	3 " 11 $\frac{1}{2}$	.55	8 $\frac{1}{2}$	121
12d	3 $\frac{1}{4}$ " 11 $\frac{1}{2}$	.50	8 $\frac{1}{2}$	113
16d	3 $\frac{1}{2}$ " 11	.45	8	90
20d	4 " 10	.35	7	62

Illustrations
Actual Size

Kuphed Nails furnished only

Flooring Brads

See Page 27 for Special Flooring Nails

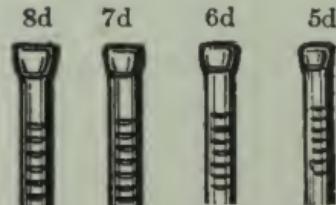


**Deep Countersunk Head
Diamond Point
American Steel & Wire Co.'s Steel
Wire Gauge**

Size	Length and Gauge			Extra Over Base Price	Deg. C's'k	Diam. Head. Gauge	Approximate No.toLb.
6d	2	inch	No. 11	\$0.65	32	6	157
7d	2 1/4	"	" 11	.60	32	6	139
8d	2 1/2	"	" 10	.55	32	5	99
9d	2 3/4	"	" 10	.50	32	5	90
10d	3	"	" 9	.45	32	4	69
12d	3 1/4	"	" 8	.40	32	3	54
16d	3 1/2	"	" 7	.35	32	2	43
20d	4	"	" 6	.30	32	1	31

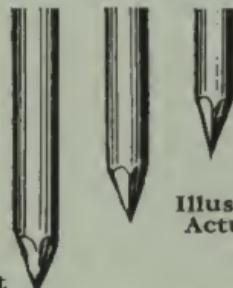
Barbed nails furnished in all sizes and styles at 25c per 100 lbs. over smooth.

Common Brads



**Brad Head
Diamond Point**

**American Steel & Wire Co.'s
Steel Wire Gauge**



Illustrations
Actual Size

Size	Length of Gauge			Extra Over Base Price	Diam. Head. Gauge	Approx. No.toLb.
2d	1	inch	No. 15	\$1.70	12	876
3d	1 1/4	"	" 14	1.20	11	568
4d	1 1/2	"	" 12 1/2	.85	9 1/2	316
5d	1 3/4	"	" 12 1/2	.75	9 1/2	271
6d	2	"	" 11 1/2	.65	8 1/2	181
7d	2 1/4	"	" 11 1/2	.60	8 1/2	161
8d	2 1/2	"	" 10 1/4	.55	7	106
9d	2 3/4	"	" 10 1/4	.50	7	96
10d	3	"	" 9	.45	6	69
12d	3 1/4	"	" 9	.40	6	64
16d	3 1/2	"	" 8	.35	5	49
20d	4	"	" 6	.30	3	31
30d	4 1/2	"	" 5	.30	2	24
40d	5	"	" 4	.30	1	18
50d	5 1/2	"	" 3	.30	0	16
60d	6	"	" 2	.30	00	11

when specified. See page 35.

Clout Nails

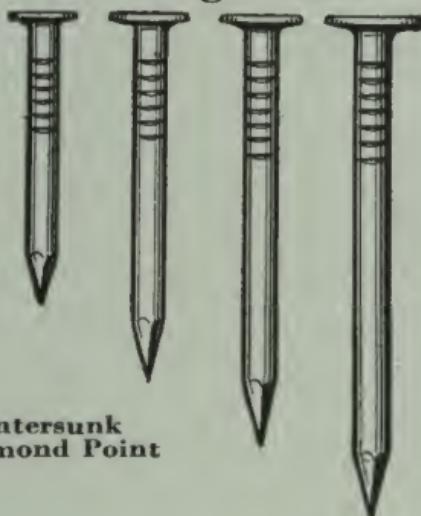
American Steel & Wire Co.'s Steel Wire Gauge Flat Head Duck Bill Point

Length	Gauge No.	Extra over Base Price		Approx. No. to Lb.
		Annealed	Bright	
3/4 in.	15	\$2.65	\$2.40	1160
7/8 in.	14	2.00	1.75	808
1 in.	14	1.80	1.55	705
1 1/8 in.	14	1.75	1.50	628
1 1/4 in.	13	1.60	1.35	423
1 3/8 in.	13	1.50	1.25	390
1 1/2 in.	13	1.45	1.20	350



Illustrations
Actual Size

Slating Nails



Slightly Countersunk
Flat Head, Diamond Point

Illustrations
Actual Size

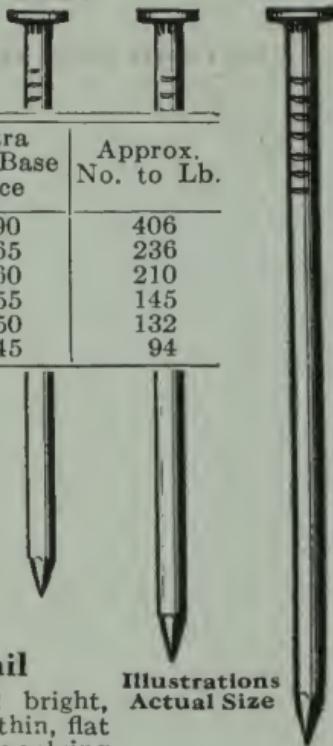
Size	Length and Gauge	Extra Over Base Price Bright	Deg. of Countersunk	Diam. Head	Approx. No. to Lb. Bright
2d	1 inch No. 12	\$1.20	145	5/16	411
3d	1 1/4 " " 10 1/2	1.00	145	3/8	225
4d	1 1/2 " " 10 1/2	.85	145	3/8	187
5d	1 3/4 " " 10	.75	145	1 1/2	142
6d	2 " " 9	.65	145	7/16	103

Siding Nails

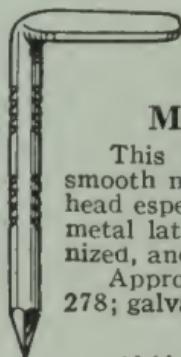
Flat Head—Diamond Point

American Steel & Wire Co.'s Steel Wire Gauge

Size	Length and Gauge			Extra Over Base Price	Approx. No. to Lb.
5d	1 $\frac{3}{4}$ inch	No. 14		\$0.90	406
6d	2 "	" 12 $\frac{1}{2}$		.65	236
7d	2 $\frac{1}{4}$ "	" 12 $\frac{1}{2}$		.60	210
8d	2 $\frac{1}{2}$ "	" 11 $\frac{1}{2}$		.55	145
9d	2 $\frac{3}{4}$ "	" 11 $\frac{1}{2}$		.50	132
10d	3 "	" 10 $\frac{1}{2}$		.45	94



10d



Hook Head Metal Lath Nail

This is a 1 $\frac{1}{8}$ x 12 bright, smooth nail with a long thin, flat head especially suited for applying metal lath. Can also be furnished blued, galvanized, and in other lengths.

Approximate count per pound, blued or bright, 278; galvanized, 213.

Extra, over base per 100 lbs.
Bright \$2.95 Blued \$3.30 Galvanized \$4.95

Illustration
Actual Size

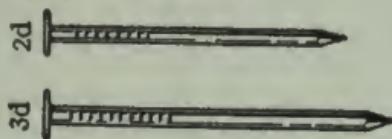
Fence Nails

Am. Steel & Wire Co.'s Steel Wire Gauge

Size	Length and Gauge			Extra Over Base Price	Diam. Head	Approx. No. to Lb.
5d	1 $\frac{3}{4}$ inch	No. 10		\$0.60	$\frac{9}{32}$	142
6d	2 "	" 10		.55	$\frac{9}{32}$	124
7d	2 $\frac{1}{4}$ "	" 9		.45	$\frac{5}{16}$	92
8d	2 $\frac{1}{2}$ "	" 9		.45	$\frac{5}{16}$	82
9d	2 $\frac{3}{4}$ "	" 8		.40	$\frac{11}{32}$	62
10d	3 "	" 7		.40	$\frac{3}{8}$	50
12d	3 $\frac{1}{4}$ "	" 6		.35	$\frac{13}{32}$	40
16d	3 $\frac{1}{2}$ "	" 5		.30	$\frac{7}{16}$	30
20d	4 "	" 4		.25	$\frac{15}{32}$	23

Illustration
Actual Size

Sterilized Blued Lath Nails



Illustrations
Actual Size

Flat Head, Diamond Point

Size	Length and Gauge	Extra over Base Price	Approx. No. to Lb.
2d Light	1 inch No. 16 $\frac{1}{2}$	\$2.55	1351
3d	1 $\frac{1}{8}$ " " 17	2.75	1560
3d Light	1 $\frac{1}{8}$ " " 15	1.95	778
	1 $\frac{1}{8}$ " " 16	2.50	1015

Lathers carry the nails in the mouth while at work and it is therefore, from the standpoint of health sanitation, necessary to have the nails free from all injurious substances. Polished or bright nails cannot be made or kept entirely clean owing to process of manufacture as well as the effect of atmospheric conditions. Packed in paper-lined kegs.

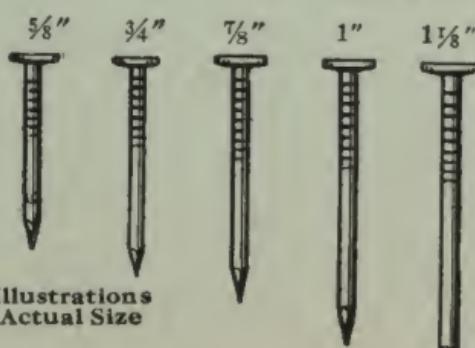
Fine Nails Bright

Size	Length and Gauge	Extra over Base Price	Approx. No. to Lb.
2d	1 inch No. 16 $\frac{1}{2}$	\$2.20	1351
2d Ex. Fine	1 " " 17	2.40	1560
3d	1 $\frac{1}{8}$ " " 15	1.60	778
3d Ex. Fine	1 $\frac{1}{8}$ " " 16	2.15	1015

Barrel Nails

Flat Head—Diamond Point

Size	Length and Gauge	Extra Over Base Price	Dia. Head	Approx. No. to Lb.
$\frac{5}{8}$ inch	$\frac{5}{8}$ inch No. 15 $\frac{1}{2}$	\$2.45	9 Ga.	1615
$\frac{5}{8}$ "	$\frac{5}{8}$ " 15 $\frac{1}{2}$	2.10	9 "	1346
$\frac{7}{8}$ "	$\frac{7}{8}$ " 14 $\frac{1}{2}$	1.45	7 "	906
1 "	1 " 14 $\frac{1}{2}$	1.25	7 "	775
1 $\frac{1}{8}$ "	1 $\frac{1}{8}$ " 14 $\frac{1}{2}$	1.20	7 "	700
1 $\frac{1}{4}$ "	1 $\frac{1}{4}$ " 14	1.15	$\frac{3}{16}$	568
1 $\frac{1}{2}$ "	1 $\frac{1}{2}$ " 13	.95	$\frac{1}{2}$	400
1 $\frac{3}{4}$ "	1 $\frac{3}{4}$ " 13	.90	$\frac{5}{8}$	367



Illustrations
Actual Size

9d

Cinch Nails

Oval Head, Duck Bill Points, Bright or Annealed

Bright Clinch Nails
Will Be Furnished
Unless Otherwise Ordered

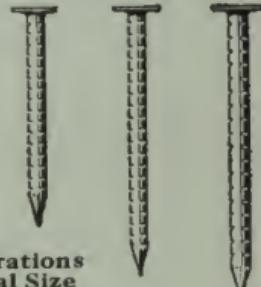
American Steel & Wire
Co.'s Steel Wire Gauge

Size	Length and Gauge	EXTRA OVER BASE PRICE		Head Rad.	Dia. Head	Approx. No. to Lb.
		Bright	Annealed			
2d	1 inch No. 14	\$1.55	\$1.80	1/4	3/16	710
3d	1 1/4 " " 13	1.35	1.60	1/4	7/32	429
4d	1 1/2 " " 12	1.10	1.35	1/4	1/4	274
5d	1 3/4 " " 12	1.00	1.25	1/4	1/4	235
6d	2 " " 11	.90	1.15	5/16	2 Ga	157
7d	2 1/4 " " 11	.85	1.10	5/16	2 Ga	139
8d	2 1/2 " " 10	.80	1.05	5/16	9/32	99
9d	2 3/4 " " 10	.75	1.00	5/16	9/32	90
10d	3 " " 9	.70	.95	5/16	5/16	69
12d	3 1/4 " " 9	.65	.90	5/16	5/16	62
16d	3 1/2 " " 8	.60	.85	3/8	11/32	49
20d	4 " " 7	.55	.80	3/8	3/8	37

Illustration
Actual Size

Berry Box Nails

3/4" 7/8" 1"

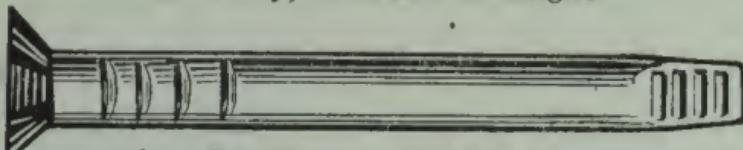
Diamond or Needle Point, Smooth or Barbed
Flat Head.Illustrations
Actual Size

Size	Length and Gauge	Extra Over Base Price for Smooth	Dia. Head	Approx. No. to Lb.
2 1/4 inch	No. 16 3/4 inch 5/8 "	\$2.80 2.55 2.35	9 Ga.	1500 1300
1 1/8 "	1 " " 1 1/8 "	2.30	"	1150
1 1/4 "	1 1/8 " " 1 1/4 "	2.25	"	1010
3/4 inch	No. 17 3/4 inch	\$3.00 2.75	9 Ga.	910 1904 1584
1 1/8 "	1 " " 1 1/8 "	2.55	"	1432
1 1/4 "	1 1/8 " " 1 1/4 "	2.50 2.45	"	1300 1168

Barbed Nails, 25c per 100 pounds advance.

Hinge Nails

In ordering specify whether Oval or Countersunk Head, Light or Heavy, Annealed or Bright



8d Flat Countersunk Head, Chisel Point



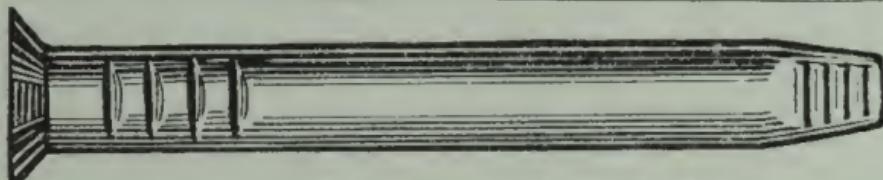
8d Oval Head, Chisel Point

Light Hinge Nails

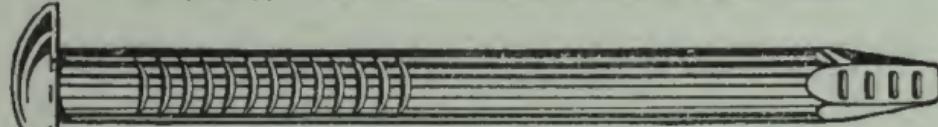
Bright

American Steel & Wire Co's. Steel Wire Gauge

Size	Length and Gauge	Extra over Base Price	Deg. Csk.	Dia. Head	Approx. No. to Lb.
4d	1 1/2 inch No. 3/16	\$0.95	95	1 1/16	82
6d	2 inch No. 3/16	.80	95	1 3/16	62
8d	2 1/2 inch No. 3/16	.75	95	1 7/16	50
10d	3 inch No. 1/4	.70	95	1 1/2	25
12d	3 1/4 inch No. 1/4	.65	95	1 1/2	23
16d	3 1/2 inch No. 1/4	.60	95	1 1/2	22
20d	4 inch No. 1/4	.55	95	1 1/2	19



10d (heavy) Flat Countersunk Head, Chisel Point



10d (heavy) Oval Head, Chisel Point

Heavy Hinge Nails

Bright

Size	Length and Gauge	Extra over Base Price	Deg. Csk.	Dia. Head	Approx. No. to Lb.
4d	1 1/2 inch No. 1/4	\$0.95	95	1/2	50
6d	2 inch No. 1/4	.80	95	1/2	38
8d	2 1/2 inch No. 1/4	.75	95	1/2	30
10d	3 inch 3/8 inch	.80	95	3/4	12
12d	3 1/4 inch 3/8 inch	.75	95	3/4	11
16d	3 1/2 inch 3/8 inch	.70	95	3/4	10
20d	4 inch 3/8 inch	.65	95	3/4	9

Annealed nails 25c per 100 pounds advance.

Smooth Foundry Nails

Large Flat Head, Diamond Point

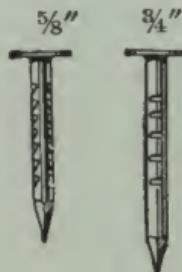
3"



These nails are made of Nos. 8, 9, and 10 gauge wire, with $\frac{1}{2}$ -inch diameter heads; also made of No. 11 gauge wire, with $\frac{1}{16}$ -inch diameter heads, in lengths $\frac{3}{4}$ inch and longer.

Extras Per 100 Lbs. over Base—in Kegs
Smooth Foundry Nails

	No. 8 $\frac{1}{2}$ in. Hd.	No. 9 $\frac{1}{2}$ in. Hd.	No. 10 $\frac{1}{2}$ in. Hd.	No. 11 $\frac{1}{16}$ in. Hd.
$\frac{3}{4}$ inch	\$1.35	\$1.45	\$1.50	\$1.55
$\frac{7}{8}$ inch	1.25	1.35	1.40	1.45
1 inch	1.15	1.25	1.30	1.35
$1\frac{1}{8}$ inch	1.10	1.20	1.25	1.30
$1\frac{1}{4}$ inch	1.05	1.15	1.20	1.25
$1\frac{3}{8}$ inch	1.00	1.10	1.15	1.20
$1\frac{3}{4}$ inch	1.00	1.10	1.15	1.20
2 inch	1.20	1.25	1.35	1.45
$2\frac{1}{4}$ inch	1.15	1.20	1.30	1.40
$2\frac{1}{2}$ inch	1.15	1.20	1.30	1.40
$2\frac{3}{4}$ inch	1.10	1.15	1.25	1.35
3 inch and longer	1.05	1.10	1.20	1.30



Flat Head
Diamond
Point

Illustrations
Actual Size

Broom Nails

Flat Head Diamond Point

Are usually $\frac{5}{8}$ inch or $\frac{3}{4}$ inch long, made from No. 14 or No. 15 gauge wire, with smooth flat or flat star heads, diamond point.

Extra Over Base Price

$\frac{5}{8} \times 14 \dots \2.20 $\frac{3}{4} \times 14 \dots \1.85

$\frac{5}{8} \times 15 \dots 2.60$ $\frac{3}{4} \times 15 \dots 2.25$

Size of Head: No. 15-No. 5 gauge
No. 14- $\frac{1}{2}$ Inch

American Wood Shingle Nails

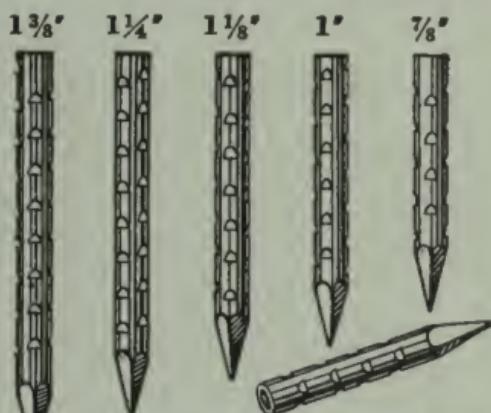
Hot Galvanized Zinc
Coated—5d, $1\frac{3}{4}$ ";
13 ga., $\frac{1}{4}$ " Head



Especially adapted for laying new wood shingles over old shingles or roofing. Just the proper thickness to prevent splitting of shingles and right length to insure good holding power without projecting through roofing boards. Hot Zinc Coated to give long life.

Advance over base \$0.95, subject to extra for galvanizing.

Kuphed Barbed Dowel Pins



Headless, Diamond Points

American Steel & Wire Co.'s Steel Wire Gauge

Size	Extra Over Base Price				
	No. 8	No. 9	No. 10	No. 11	No. 12
5/8 inch	\$1.75	\$1.90	\$2.00	\$2.20	\$2.45
3/4 "	1.50	1.65	1.75	1.90	2.15
7/8 "	1.35	1.50	1.60	1.75	2.00
1 "	1.25	1.40	1.50	1.65	1.90
1 1/8 "	1.15	1.30	1.40	1.50	1.75
1 1/4 "	1.10	1.25	1.35	1.45	1.70
1 3/8 "	1.05	1.20	1.30	1.40	1.65
1 1/2 "	1.00	1.15	1.25	1.35	1.60
1 5/8 "	.95	1.10	1.20	1.30	1.55
1 3/4 "	.90	1.05	1.15	1.25	1.50
2 "	.85	1.00	1.10	1.20	1.45

Size	Approx. No. to Lb.				
	No. 8	No. 9	No. 10	No. 11	No. 12
5/8 inch	290	404	486	588	804
3/4 "	250	336	390	480	616
7/8 "	210	281	330	400	544
1 "	190	235	277	349	484
1 1/8 "	165	212	251	305	420
1 1/4 "	150	187	221	267	352
1 3/8 "	130	169	200	239	324
1 1/2 "	120	154	181	221	308
1 5/8 "	110	141	167	208	275
1 3/4 "	100	130	154	195	256
2 "	90	111	131	164	210

Kuphed dowel pins will be furnished unless plain head is specified.

American Special Plaster Board Nail

Blued

Large heads, so the nails will have ample holding power and cover sufficient surface of the board to prevent pulling through.

Long Diamond Point, permits the nails to cut through the boards readily without damage to the composition plaster.

Blued, so they can be fed from the mouth without danger to health. Bluing process makes the nails free from injurious substances or atmospheric conditions.

Packed in paper lined kegs to insure delivery of clean—sanitary product.

Great care is used to secure heads of proper size, sharp points and uniform length and gauge.

Blued, Large Flat Head, Long Diamond Point, Smooth Nail, $\frac{5}{16}$ " Head.

Net extra over base

Sizes	Price	Count	Sizes	Price	Count
1" No. 13	\$2.35	469	1½" No. 13	\$2.00	339
1½" " 13	2.20	448	1¾" " 13	1.90	291
1¼" " 13	2.10	387			

(Note:—Advances include all features.)

American Ideal Shingle Nail

$\frac{3}{4}$ " Large Flat Head, Blunt Diamond Point

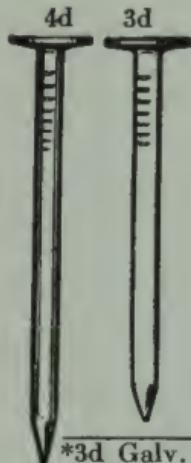
The American Shingle Nail offers many advantages. Its Special Blunt Diamond Point cuts cleanly through the wood without splitting. Made of hard and constantly uniform steel, it provides great resistance to bending, saves time and reduces labor. A heavy covering of hot zinc gives the most efficient protection against rust and corrosion.

These nails will positively not split the shingles.

Size	Length	Gauge	Approx. Count Per Lb.	Extra Over Base Bright
3d	1¼	14	466	\$1.45
3½d	1½	14	436	1.35
4d	1½	13	313	1.20

Subject to Extra for Galvanizing.





Shingle Nails

Flat Head, Diamond Point

Copper Steel, Bright or Hot Galvanized (Zinc Coated,
See Page 3)

American Steel & Wire Co.'s Steel Wire Gauge

Size	Length and Gauge	Extra Over Base Price Bright	Diam. Head	Approx. No. to Lb. Bright
3d	1 $\frac{1}{4}$ inch No. 13	\$1.05	$\frac{1}{4}$	429
3 $\frac{1}{2}$ d	1 $\frac{3}{8}$ " " 12 $\frac{1}{2}$	.85	$\frac{9}{32}$	345
4d	1 $\frac{1}{2}$ " " 12	.80	$\frac{9}{32}$	274
5d	1 $\frac{3}{4}$ " " 12	.70	$\frac{9}{32}$	235
6d	2 " " 12	.65	$\frac{9}{32}$	204

*3d Galv. COMMON NAILS are sometimes used for shingling. Be sure to specify which style is wanted.

American Zinc Coated Asbestos

Barbed Shingle Nails

Large Flat Head, Needle Point

A rust-resisting permanence in asbestos shingle roofing

HEAD— $1\frac{1}{2}$ in. diameter Extra Large Flat Head—uniform, well centered, smooth underneath head—no fins to crack asbestos shingles or make nail hole larger.

POINT—Easy driving with sharp Needle Points.

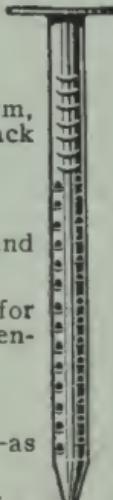
BARBED—Shank of Nail barbed to insure good grip and holding power.

LENGTHS—1 inch to 2 inches inclusive—Short lengths for applying direct to roof decks. Longer lengths for fastening over old wooden shingles.

GAUGE—No. 11 $\frac{1}{2}$. Just the proper thickness.

ZINC COATING—Hot galvanized zinc coated Nails—as the name implies, galvanized by the Hot Process.

See page 2 for description of difference between galvanizing and zinc coating processes.



Length	Advance for Size Subject to charge for galvanizing	Count per lb.
1"	\$1.75	316
1 $\frac{1}{8}$ "	1.75	281
1 $\frac{1}{4}$ "	1.65	261
1 $\frac{1}{2}$ "	1.60	219
1 $\frac{3}{4}$ "	1.60	190
2"	1.55	170

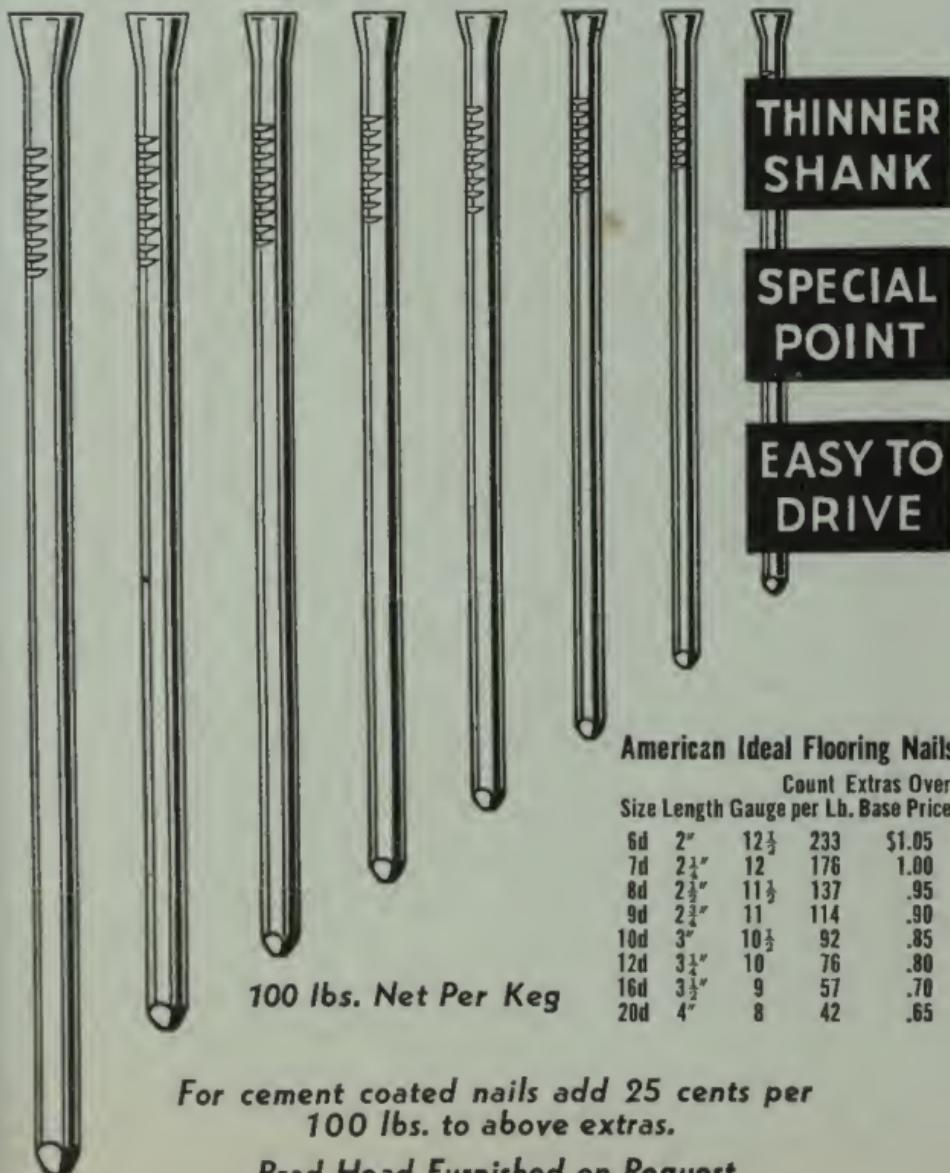
AMERICAN IDEAL FLOORING NAILS

DO NOT SPLIT THE WOOD and WILL NOT BEND

Thinner shank and special point; can be driven through the hardest wood and across the grain without splitting the wood or bending the nail. It puts an end to lumber and nail waste—saving important time and money on every job.

A Product of Superior Design and Construction

The American Ideal Flooring Nail is made of special tested Wire and has a scientifically designed point which cuts through clean and true.



Boat Nails

Oval Countersunk Head, Chisel Point



6d

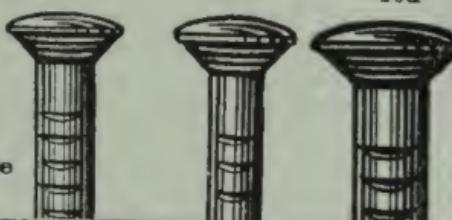
8d

10d

Light Boat Nails

Bright

Am. Steel & Wire Co.'s Steel Wire Gauge

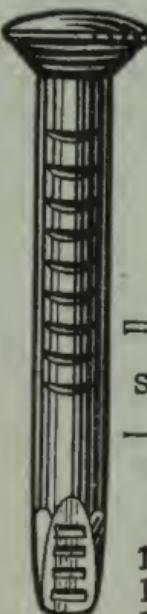


Size	Length and Gauge		Extra over Base Price	Deg. Csk.	Head Rad.	Dia. Head	Approx. No. to Lb.
4d	1 1/2 inch	No. 1/8	\$0.95	95	7/16	1/2	82
6d	2 "	" 1/8	.80	95	7/16	1/2	62
8d	2 1/2 "	" 3/16	.75	95	7/16	1/2	50
10d	3 "	" 1/4	.70	95	7/16	1/2	22
12d	3 1/4 "	" 1/4	.65	95	7/16	1/2	20
16d	3 1/2 "	" 1/4	.60	95	7/16	1/2	18
20d	4 "	" 1/4	.55	95	7/16	1/2	16

Annealed nails 25c per 100 pounds advance.



6d

Heavy Boat Nails
BrightIllustrations
Actual Size

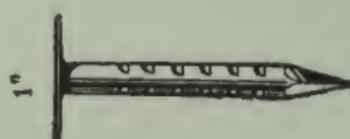
Am. Steel & Wire Co.'s Steel Wire Gauge

Size	Length and Gauge		Extra over Base Price	Deg. Csk.	Head Rad.	Dia. Head	Approx. No. to Lb.
4d	1 1/2 inch	No. 1/4	\$0.95	95	7/16	1/2	44
6d	2 "	" 1/4	.80	95	7/16	1/2	32
8d	2 1/2 "	" 1/4	.75	95	7/16	1/2	26
10d	3 "	" 3/8	.80	95	7/16	3/4	14
12d	3 1/4 "	" 8/8	.75	95	7/16	3/4	13
16d	3 1/2 "	" 8/8	.70	95	7/16	3/4	12
20d	4 "	" 8/8	.65	95	7/16	3/4	10

Illustration
Actual Size

Annealed nails 25c per 100 pounds advance.

Large Head Barbed Roofing Nails
Diamond Points
Copper Steel, Bright or Hot Galvanized



Extras per 100 Lbs. over Base

American Steel & Wire Co.'s Steel Wire Gauge

	No. 8	No. 9	No. 9½	No. 10	No. 10½	No. 10	No. 11	No. 12
	½ in. Head	½ in. Head	½ in. Head	¼ in. Head	¼ in. Head	½ in. Head	¼ in. Head	⅜ in. Head
¾ in.	\$1.40	\$1.50	\$1.55	\$1.55	\$1.65	\$1.65	\$1.70	\$1.80
⅞ in.	1.30	1.40	1.45	1.45	1.55	1.55	1.60	1.70
1 in.	1.20	1.30	1.35	1.35	1.45	1.45	1.50	1.60
1 ¼ in.	1.15	1.25	1.30	1.30	1.40	1.40	1.45	1.55
1 ½ in.	1.10	1.20	1.25	1.25	1.35	1.35	1.40	1.50
1 ¾ in.	1.05	1.15	1.20	1.20	1.30	1.30	1.35	1.45
2 in.	1.00	1.10	1.15	1.15	1.25	1.25	1.30	1.40

Subject to charge for galvanizing.

**Approximate Number of Nails to the Pound—
Galvanized**

On account of variation in gauge of wire, counts are not guaranteed to be absolutely exact, but are approximately correct.

Length	½-inch Head				¼-inch Head			⅜ in. Head
	8 ga.	9 ga.	9½	10 ga.	10 ga.	10 ½ ga.	11 ga.	
¾ in.	177	214	235	250	255	298	315	464
⅞ in.	160	184	200	215	225	264	280	396
1 in.	140	165	190	190	210	228	255	361
1 ¼ in.	132	157	177	180	185	222	232	315
1 ½ in.	125	148	165	170	170	198	210	286
1 ¾ in.	102	125	138	150	155	167	180	249
2 in.	94	115	130	134	143	157	165	224
	88	107	120	130	135	147	150	210
	80	96	105	110	115	126	138	195

The Ideal Roofing Nail

Large Flat Checker Head, Long Diamond Point

For all kinds of Smooth, Grit-Surfaced and Asbestos Roll Roofings and Asphalt and Asbestos Shingles

Just what is needed—fills a long felt want.



Through many years of experience in the manufacture and sale of Roofing Nails and a close study of trade requirements, the Ideal Roofing Nail has proved its superiority.

This Nail is just what the name implies "Ideal"—large checkered heads, absolutely uniform and well centered. The shank is just right, not too thick to split the wood nor too thin to break and rust out quickly. The long, sharp point enables the workmen to stick the Nails in place like a tack doing the work better and easier in half the time.

Furnished in bright or hot galvanized (Zinc-Coated), in lengths and gauges as shown below. Be sure to specify length, gauge and if bright or galvanized. Samples furnished upon request.



Bright Ideal Roofing Nails

Extras per 100 Lbs. Over Base

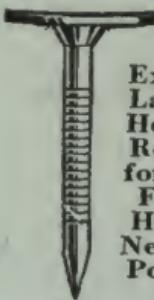
Illustrations
Actual Size

	No. 10 5/8" Hd.	No. 10 1/2 9/16" Hd.	No. 11 1/2" Hd.	No. 11 9/16" Hd.	No. 12 7/16" Hd.	No. 12 5/8" Hd.
3/4 inch	\$2.30	\$2.40	\$2.60	\$2.75	\$2.90	\$3.05
7/8 "	2.00	2.10	2.30	2.45	2.60	2.75
1 "	1.80	1.90	2.10	2.25	2.40	2.55
1 1/8 "	1.75	1.85	2.05	2.20	2.35	2.50
1 1/4 "	1.70	1.80	2.00	2.15	2.30	2.45
1 1/2 "	1.65	1.75	1.95	2.10	2.25	2.40
1 3/4 "	1.60	1.70	1.90	2.05	2.20	2.35
2 "	1.60	1.70	1.90	2.05	2.20	2.35

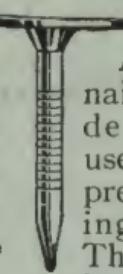
Approximate Number of Nails per Pound

Bright			Galvanized		
10 1/2 Gauge	11 Gauge	12 Gauge	10 1/2 Gauge	11 Gauge	12 Gauge
226	255	360	203	234	339
215	235	328	189	210	286
196	215	300	177	195	261
180	197	275	164	180	243
165	180	250	152	168	225
145	160	220	130	135	210
128	141	189	115	128	182
112	125	176	105	118	164

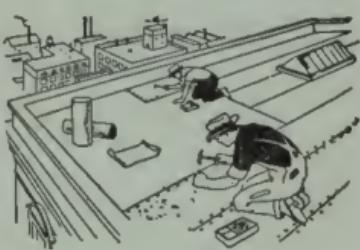
American Felt Roofing Nails



**Extra
Large
Heavy
Rein-
forced
Flat
Head
Needle
Point**



A large head nail especially designed for use in laying prepared roofing material. This nail, having an extra



large head and thin shank, meets admirably the requirements for placing all prepared roofing. The head is reinforced on the shank so that it will not easily pull or break off.

Length	Gauge	COUNT PER POUND		Diameter of Head
		Bright	Galvanized	
3/4 inch	No. 11	184	164	5/8 inch
7/8 "	" 11	175	157	5/8 "
1 "	" 11	162	145	5/8 "
1 1/8 "	" 11	149	133	5/8 "
1 1/4 "	" 11	136	122	5/8 "
1 1/2 "	" 11	110	100	5/8 "
1 3/4 "	" 11	90	80	5/8 "
3/4 "	" 12	210	188	5/8 "
7/8 "	" 12	195	175	5/8 "
1 "	" 12	180	162	5/8 "
1 1/8 "	" 12	170	154	5/8 "
1 1/4 "	" 12	161	147	5/8 "
1 1/2 "	" 12	141	133	5/8 "
1 3/4 "	" 12	120	110	5/8 "

Standard Barbed Roofing Nails

1 1/2"

Flat Head, Diamond Point
Am. Steel & Wire Co.'s Steel Wire Gauge

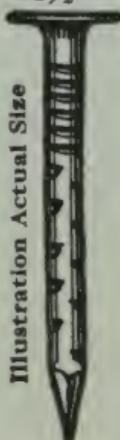


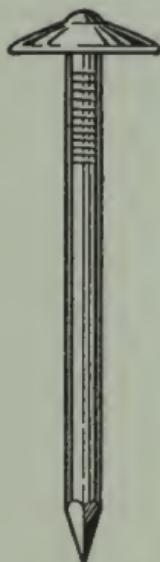
Illustration Actual Size

Size	Length and Gauge	Extra Over Base Price	Approx. No. to Lb.
3/4 inch	3/4 inch No. 13	\$1.55	714
7/8 "	7/8 " 12	1.30	469
1 "	1 " 12	1.20	411
1 1/8 "	1 1/8 " 12	1.10	365
1 1/4 "	1 1/4 " 11	.95	251
1 3/8 "	1 3/8 " 11	.90	230
1 1/2 "	1 1/2 " 10	.80	176
1 3/4 "	1 3/4 " 10	.75	151
2 "	2 " 9	.65	103

American

Leak-Proof Roofing Nails

Zinc Coated



	Extra for Size Subject to Charge for Galvanizing	Approximate Count
1 1/2 x 9.....	\$2.55	98 per lb.
1 3/4 x 9.....	2.30	87 per lb.
2 x 9.....	2.10	79 per lb.
1 1/2 x 10.....	2.80	115 per lb.
1 3/4 x 10.....	2.55	106 per lb.
2 x 10.....	2.35	93 per lb.

A great time and money saver over the old method of nail and lead washer combined, and also the present lead headed nail.

Eliminate waste. Why pay for lead at high prices and freight charges on useless weight when our SELF-SEALING, LEAK-PROOF NAILS will do the work equally as well or better at a surprising reduction in cost?

The extra heavy coating of zinc over the entire surface of the nail—shank as well as head—insures the fullest protection against rust so they will last the life of the best grades of corrugated roofing.

The self-sealing principle involved in the design and construction of this nail is the most important feature. The curved spring head does the work, making a perfect seal.

The nub of the head of the nail aids in driving so as to prevent distortion of the head.

Oil Quench Hardened Concrete Nails



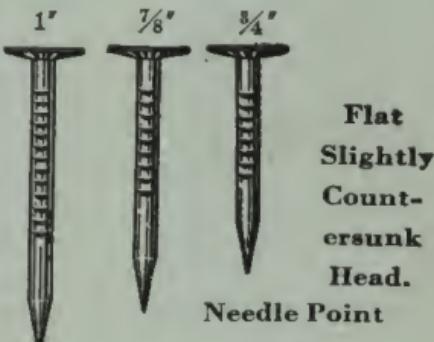
The increase in concrete construction of buildings, etc., has demanded a new type of nail for fastening Metal Corner Beading, Door Bucks, and Carpet Strips to cement.

All lengths and gauges can be supplied. Packed in kegs of 100 lbs. each.

Shade Nails

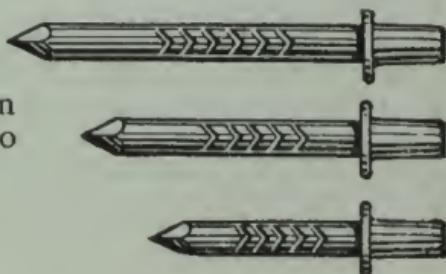
Made in $\frac{3}{4}$, $\frac{7}{8}$ and 1-inch lengths, of No. 13 gauge wire, with slightly countersunk $\frac{1}{4}$ -inch diameter flat head, and needle point.

PRICES on these nails are the same as for miscellaneous nails, plus extras for special features, such as for head and point, as shown in Miscellaneous Nail list.



Shade Roller Pins

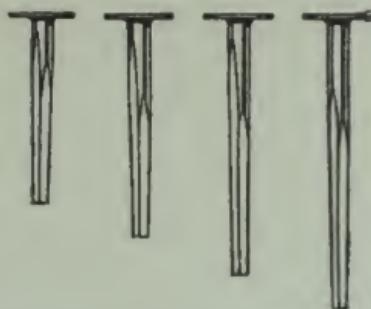
These pins are made in different sizes, according to specification.



Illustrations
Actual Size

PEERLESS HOOP NAILS

Especially designed for attaching wooden hoops to barrels. The special point provides a clinch which is very effective when driven against a piece of metal.



Length	Gauge	Approximate Count per Lb.
5/8 inch	14	1464
3/4 "	14	1264
1 1/8 "	14	1080
1 "	14	880

Mrs. McGregor Nail Boxes



Containing an assortment of nails. Very handy for use about the house.

Put up in illuminated tin display boxes, 2 1/2x3 1/2 inches.

Weight of nails and box, 7 ounces. Packed in case, one gross in a case.

Hoop Fasteners

No. 0

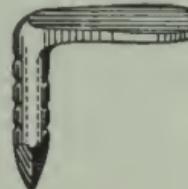


Illustrations
Actual Size

No. 1



No. 2



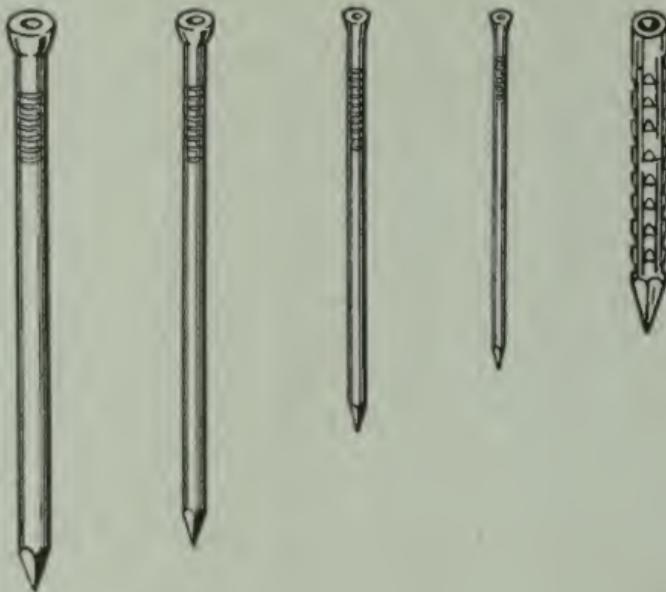
No. 3



	Length	Gauge	Approx. Count per lb.	Extras Over Standard Nail Base	
				Bright	Blued
No. 0	1"	8	102	\$1.55	\$1.90
No. 1	9/16"	9	212	1.85	2.20
No. 2	1/2"	10 1/2	308	1.95	2.30
No. 3	3/8"	13	832	2.85	3.20

Galvanized, same extra as applies to Standard Nails.
Packed 100 lbs. to the keg.

Kuphed Nails



Nail set will not slip—

Wood will not be marred—

Kuphed Nails and Brads furnished only when specified

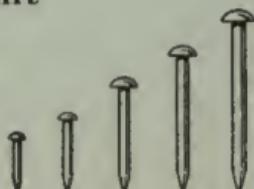
MADE IN ALL SIZES

Steel Escutcheon Pins

Oval Head, Needle Point

Made in various lengths and gauges, with oval head and needle point.

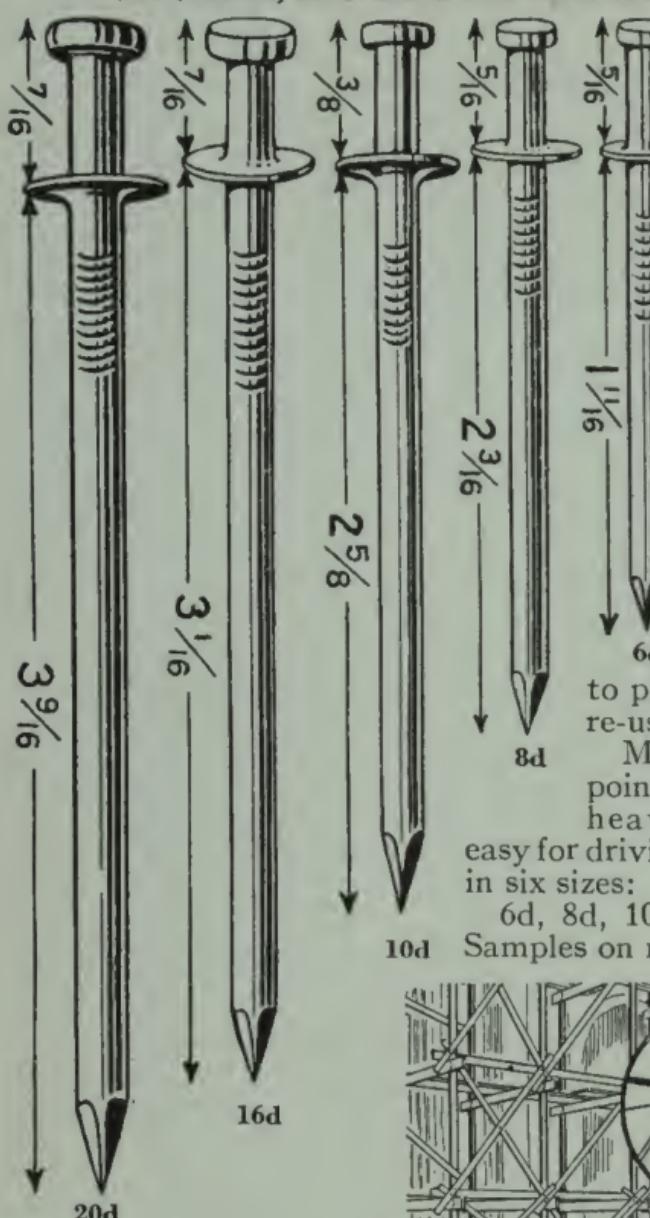
Prices on these nails are the same as for miscellaneous nails, plus extras for special features, such as for head and point as shown in Miscellaneous Nail list.



**Illustrations
Actual Size**

American Duplex Head Nails

For theatre, auditorium and other building scaffolds.



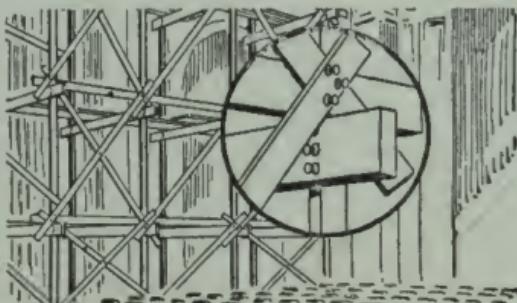
EASY TO DRIVE—EASY TO PULL

A Nail That Will Save the Lumber as Well as Save Labor in the Driving

Used for all scaffolding, foundation, column and other concrete forms and all temporary lumber constructions. They are lighter in weight giving more nails to the pound. Easy to pull out and can be re-used.

Made with a sharp point and a special heavy double head easy for driving. Manufactured in six sizes:

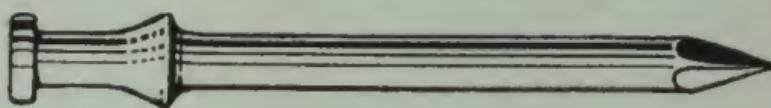
6d, 8d, 10d, 16d, 20d, 30d.
10d Samples on request.



Size	Length Overall	Gauge	Distance Between Heads	Measurement Under Lower Head	Approximate Count per Pound	Extras per 100 lbs. Over Base
6d	2"	$11\frac{1}{2}$	$\frac{5}{16}$	$1\frac{11}{16}$ "	150	\$3.40
8d	$2\frac{1}{2}"$	$10\frac{1}{4}$	$\frac{5}{16}$	$2\frac{3}{16}"$	88	3.20
10d	3"	9	$\frac{3}{8}$	$2\frac{5}{8}"$	62	3.00
16d	$3\frac{1}{2}"$	8	$\frac{7}{16}$	$3\frac{1}{16}"$	44	2.80
20d	4"	6	$\frac{7}{16}$	$3\frac{9}{16}"$	29	2.60
30d	$4\frac{1}{2}"$	5	$\frac{1}{2}$	4"	20	2.40

American Dual Head Anchor Nails

Pearson Coated



For anchoring automobiles, machinery, etc., to freight car floors in shipping.

These nails are driven through the lower flanges of band steel and through wooden cleats into the floor of the car. The object of the Dual Head is to facilitate withdrawal of the Nails.

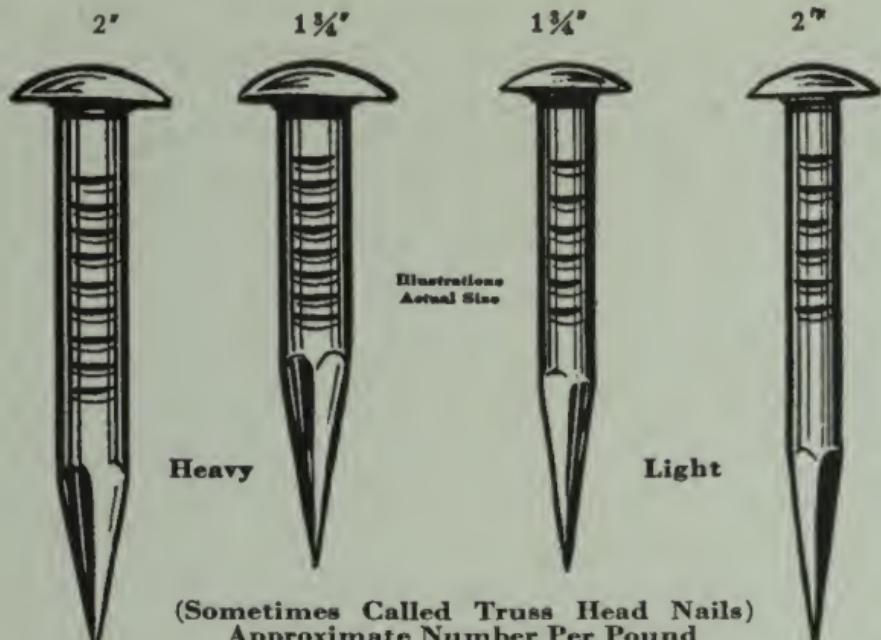
Made in lengths 2, $2\frac{1}{4}$, and $2\frac{1}{2}$ inches, measured under the lower head—this means $2\frac{1}{2}$, $2\frac{3}{4}$ and 3 inches over-all.

Principal demand is for $2\frac{1}{4}$ inch No. 6 gauge.

Packed in kegs of 100 lbs. each.

Length	Advances Over Base No. 6	Approximate Count per Pound No. 6	Advances Over Base No. 7	Approximate Count per Pound No. 7
2"	\$2.75	43	\$2.85	49
$2\frac{1}{4}"$	2.75	39	2.85	44
$2\frac{1}{2}"$	2.75	34	2.85	39

Large Oval Head Long Diamond Point Hinge Nails



(Sometimes Called Truss Head Nails)
Approximate Number Per Pound

Length	$\frac{3}{16}$ -inch	$\frac{1}{4}$ -inch
1 1/2 inch.....	81	47
1 3/4 "	68	41
2 "	61	33
2 1/4 "	54	31
2 1/2 "	48	28
2 3/4 "	45	26
3 "	41	24

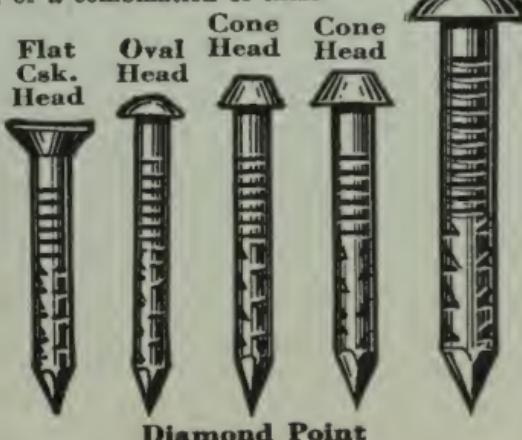
$\frac{1}{16}$ inch and $\frac{1}{4}$ inch by $1 \frac{1}{4}$ inch,
 $1 \frac{3}{4}$ inch, 2 inch,
 $2 \frac{1}{2}$ inch, $2 \frac{3}{4}$ inch
and 3 inch.

Packed in
Kegs, and 50,
25, 10 and 5
Pound Boxes.

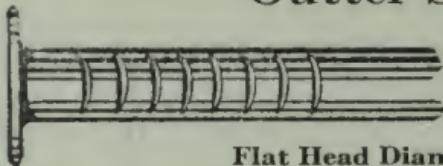
Annealed Wagon Nails

Made with different styles of heads, such as Oval, Cone, Countersunk or Steeple heads, or a combination of these styles if desired. Well barbed and thoroughly annealed, with heads perfectly uniform, these wagon nails are especially adapted for blacksmiths' use.

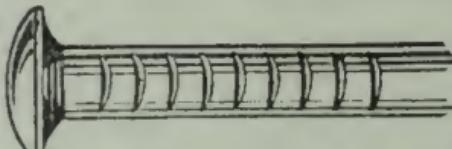
PRICES on these nails are the same as for miscellaneous nails, plus extras for special features, such as for heads, barbing and annealing, as shown in Miscellaneous Nail List. When ordering specify style, point, finish and all features.



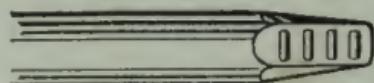
Gutter Spikes



Flat Head Diamond Point



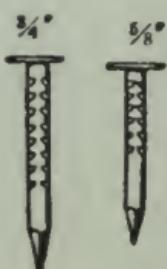
Countersunk Oval Head Chisel Point



Made in lengths of $5\frac{1}{2}$ inches to $10\frac{1}{2}$ inches inclusive, with either flat head, diamond point, or oval head, chisel point.

Made in various gauges from $\frac{3}{16}$ -inch to No. 8, inclusive. Bright or Galvanized.

Basket Nails



Flat Head Diamond Point

Are usually made $\frac{5}{8}$ -inch or $\frac{3}{4}$ -inch in length, of No. 18 gauge smooth wire, with needle point and large flat head.

PRICES on these nails are the same as for miscellaneous nails, plus extras for special features, such as for head and point, shown in Miscellaneous Nail list.

Saddlery Nails (Hame Rivet)



Oval Head Long Diamond Point, Annealed, Smooth

Made in $1\frac{1}{2}$ -inch length of No. 7 and No. $7\frac{1}{2}$ gauge wires.

These nails are used as rivets for fastening trimming to a hame. After they are driven the point is cut off and the end is riveted.

Long Diamond Point

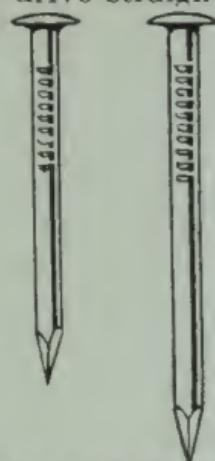
American Beer Case Nails

BEER case nails properly designed for the work intended for them. Made of special steel—they drive straight and true—resist bending—hold tenaciously.

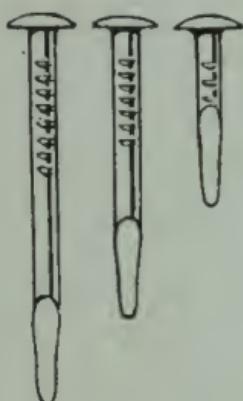
Various lengths and gauges used according to thickness and grade of lumber. Standard sizes shown below:

STRAP NAILS

Length	Gauge	Approx. Count Per Lb.
1 $\frac{1}{4}$	13	410
1 $\frac{1}{2}$	12 $\frac{1}{2}$	300
1 $\frac{3}{4}$	12	225
2	11 $\frac{1}{2}$	175



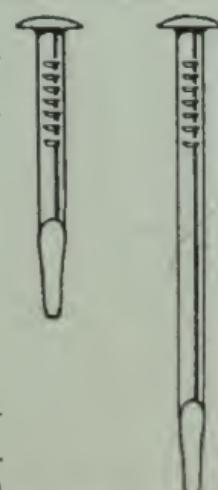
HINGE, LOCK and LATCH PLATE NAILS



Length	Gauge	Approx. Count Per Lb.
5/8	14	1030
3/4	14	860
5/8	13	800
3/4	13	680
7/8	13	585
1 1/8	13	450
1 1/4	13	410
1 5/16	13	390

CLEAT NAILS

Length	Gauge	Approx. Count Per Lb.
1 1/8	14 1/2	686
1	14	669
1 1/8	13	450
1 3/16	13	430
1 1/4	13	410
1 3/8	13	380
1 5/16	13	390
1 5/8	12 1/2	268
1 7/8	12	216

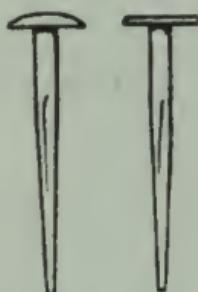


All nails can be furnished in Bright, Galvanized, Tinned or Pearson (Cement) Coated, to match finish of hardware, smooth or barbed.

STRAP NAILS—Oval Head, Short Diamond Point.

OTHER STYLES—Oval Head, Long Duck Bill Point.

Peerless Beer Case Nails



For Hinges, Locks and Latch Plates

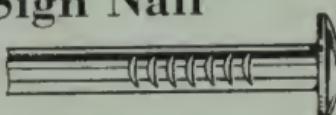
Made of special steel—Peerless Beer Case Nails will not break when clinched; they will drive straight and resist bending. The long tapering body or shank of the nail eliminates splitting of the wood and makes a perfect clinch.

These nails can be furnished in bright, blued, galvanized, tinned or (Pearson) cement coated, and with oval or flat heads.

Length	Gauge	Approx. Count Per Lb.
7/8	13 1/2	928
1	13 1/2	888
7/8	12 1/2	700
1	12 1/2	625
1 1/4	12	440

Samples furnished on request.

American Sign Nail



For hanging paper or
metal signs

OVAL HEAD—NEEDLE POINT

Length	Gauge	Approx. Count Per Lb.
15	8	11

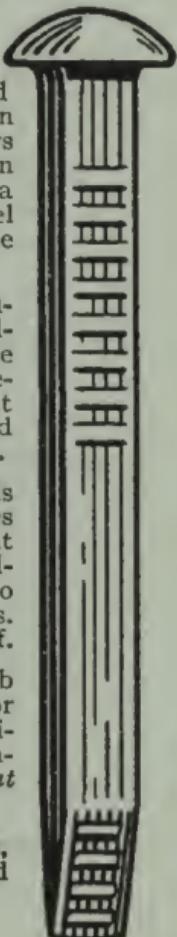
Barge Spikes

Flat Head



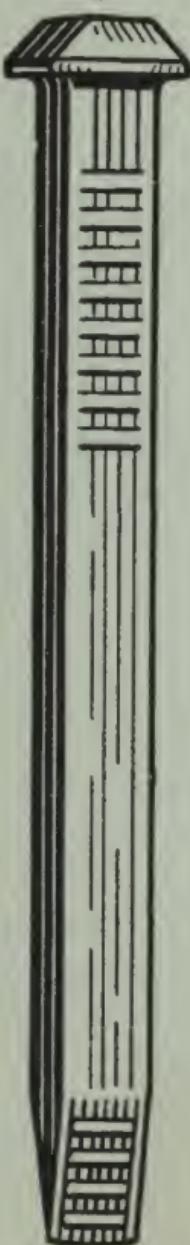
Button or
Oval
Head
Chisel
Point

3"

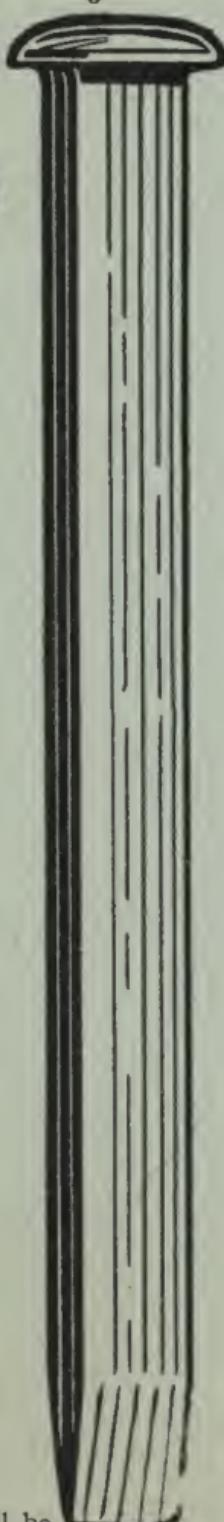


Diamond Head

4"



5"



Chisel Point

Illustrations
Actual Size

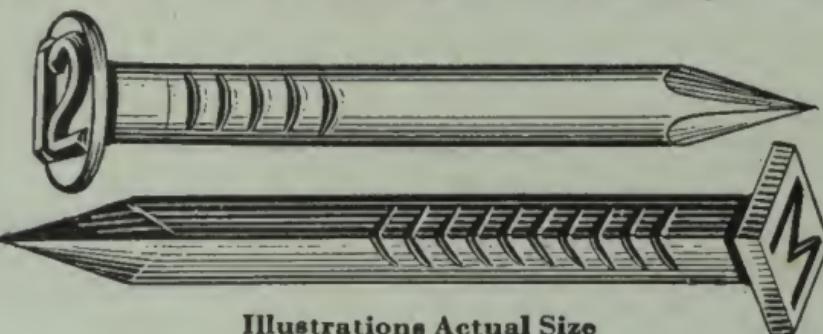
In kegs of 200 pounds.

Button or Oval Head considered standard and will be furnished unless orders specifically call for Diamond Head or Flat Head.

Sizes

$\frac{1}{4}$ inch square,	3 to $3\frac{1}{2}$ inches long
"	4 to 8 inches long
"	$3\frac{1}{2}$ inches long
"	4 to 8 inches long
"	3 to $3\frac{1}{2}$ inches long
"	4 to $12\frac{1}{2}$ inches long
"	6 to 12 inches long
"	6 to 12 inches long
"	8 to 14 inches long

Tie and Pole Dating or Marking Nails



Illustrations Actual Size

Furnished with Raised or Depressed Figures

SIZES	Approximate Count per Pound				Extra over Base per 100 lbs. Round Shank	
	Round		Square			
	Bright	Galv.	Bright	Galv.		
2½ in. by $\frac{1}{4}$ in.	30	26	23	20	\$1.00	
2 in. by $\frac{1}{4}$ in.	34	32	30	26	1.10	
1¾ in. by $\frac{1}{4}$ in.	43	39	35	32	1.25	

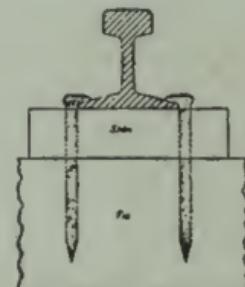
Square Shank Nails 50 cents per 100 lbs. over Round Nails.

Shimming Spikes

These spikes are used for fastening rails on trestle work where the spike is to be driven through a stringer (shim) into the tie beneath.

The orders for these spikes generally specify 7 in. or 8 in. long x $\frac{9}{16}$ in. square. Price—Base Price of Railroad Spike.

Size, Measured Under Head	Approximate Number Per Keg
7 x $\frac{9}{16}$	278
8 x $\frac{9}{16}$	260



Reversed points, $\frac{1}{4}$ c. per pound extra.

Other than regular sizes shown above can be furnished at a slight extra charge.

Packed in strong, well-made kegs of 200 lbs. each.

These spikes are driven mostly in hard timbers and it stands to reason that a spike with a clean-cut, sharp chisel point will facilitate the work.

Our process of manufacture insures a product that has all the essential features necessary in a spike that will drive easily and hold well after driven.

The proper stock is used to make spikes that will drive straight and true, and our product runs uniform as to lengths and gauges. Heads will not fly off.

For a first-class job in track, bridge or trestle work use American Steel & Wire Company Railroad and Shimming Spikes.

Railroad Spikes

Extras over Base Price

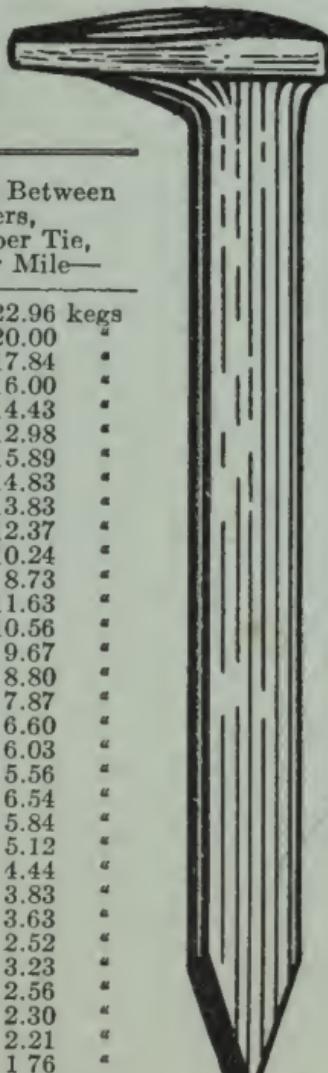
Per 100	Per 100		
In. In. Lbs.	In. In. Lbs.		
$\frac{1}{4}$ 1 $\frac{1}{4}$	\$2.50	$\frac{3}{8}$ 3 to 4 $\frac{1}{2}$	\$0.90
$\frac{1}{4}$ 1 $\frac{1}{2}$	2.25	$\frac{7}{16}$ 3 . . . . .	.75
$\frac{1}{4}$ 2 to 2 $\frac{1}{2}$	2.00	$\frac{7}{16}$ 3 $\frac{1}{2}$ to 4 $\frac{1}{2}$ . . . . .	.65
$\frac{1}{4}$ 3	1.85	$\frac{1}{2}$ 2 $\frac{1}{2}$ . . . . .	.65
$\frac{5}{16}$ 2 to 4	1.70	$\frac{1}{2}$ 3 to 3 $\frac{1}{2}$ . . . . .	.50
$\frac{3}{8}$ 2	1.25	$\frac{1}{2}$ 4 to 5 . . . . .	.25
$\frac{3}{8}$ 2 $\frac{1}{2}$	1.15	$\frac{9}{16}$ 4 $\frac{1}{2}$ and larger	Base

Reversed points, $\frac{1}{4}$ c. per pound extra.

Other than regular sizes shown above can be furnished at a slight extra charge.

Packed in kegs of 200 pounds.

* $\frac{9}{16}$ -inch railroad spikes are not made by us, but we carry in stock sizes 5 and 5 $\frac{1}{2}$ x $\frac{9}{16}$ for convenience of customers in making shipment of mixed carloads of our railroad and boat spikes.



Approximate Number of Railroad Spikes to a Keg of 200 Pounds

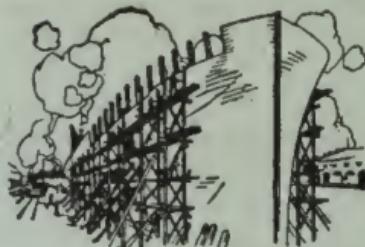
Size Meas. Under Head	Aver. No. per Keg	Ties 2 Feet Between Centers, 4 Spikes per Tie, Makes per Mile—
5 x $\frac{1}{2}$	460	4,592 lbs.—22.96 kegs
4 $\frac{1}{2}$ x $\frac{1}{2}$	528	4,000 " —20.00 "
4 x $\frac{1}{2}$	592	3,568 " —17.84 "
3 $\frac{1}{2}$ x $\frac{1}{2}$	660	3,200 " —16.00 "
3 x $\frac{1}{2}$	732	2,886 " —14.43 "
2 $\frac{1}{2}$ x $\frac{1}{2}$	814	2,596 " —12.98 "
5 x $\frac{7}{16}$	664	3,178 " —15.89 "
4 $\frac{1}{2}$ x $\frac{7}{16}$	712	2,966 " —14.83 "
4 x $\frac{7}{16}$	764	2,766 " —13.83 "
3 $\frac{1}{2}$ x $\frac{7}{16}$	854	2,474 " —12.37 "
3 x $\frac{7}{16}$	1,032	2,048 " —10.24 "
2 $\frac{1}{2}$ x $\frac{7}{16}$	1,210	1,746 " —8.73 "
5 x $\frac{3}{8}$	908	2,326 " —11.63 "
4 $\frac{1}{2}$ x $\frac{3}{8}$	1,000	2,112 " —10.56 "
4 x $\frac{3}{8}$	1,092	1,934 " —9.67 "
3 $\frac{1}{2}$ x $\frac{3}{8}$	1,200	1,760 " —8.80 "
3 x $\frac{3}{8}$	1,342	1,574 " —7.87 "
2 $\frac{1}{2}$ x $\frac{3}{8}$	1,600	1,320 " —6.60 "
2 $\frac{1}{4}$ x $\frac{3}{8}$	1,750	1,206 " —6.03 "
2 x $\frac{3}{8}$	1,902	1,112 " —5.56 "
4 x $\frac{5}{16}$	1,630	1,308 " —6.54 "
3 $\frac{1}{2}$ x $\frac{5}{16}$	1,810	1,168 " —5.84 "
3 x $\frac{5}{16}$	2,066	1,024 " —5.12 "
2 $\frac{1}{2}$ x $\frac{5}{16}$	2,380	888 " —4.44 "
2 $\frac{1}{4}$ x $\frac{5}{16}$	2,760	766 " —3.83 "
2 x $\frac{5}{16}$	2,912	726 " —3.63 "
1 $\frac{1}{2}$ x $\frac{5}{16}$	4,200	504 " —2.52 "
3 x $\frac{1}{4}$	3,266	646 " —3.23 "
2 $\frac{1}{2}$ x $\frac{1}{4}$	4,120	512 " —2.56 "
2 $\frac{1}{4}$ x $\frac{1}{4}$	4,600	460 " —2.30 "
2 x $\frac{1}{4}$	4,778	442 " —2.21 "
1 $\frac{1}{2}$ x $\frac{1}{4}$	6,000	352 " —1.76 "
1 $\frac{1}{4}$ x $\frac{1}{4}$	7,920	266 " —1.33 "

NOTE—The above is given as approximate, and Company is not to be bound in any way to protect these figures.

Square Boat Spikes

Diamond Head—Chisel Point

Extras over Base Prices



Also used for dock and heavy plank work

	Length Inches	Per 100 Lbs.
$\frac{1}{4}$ inch square, 3	to $3\frac{1}{2}$	\$1.25
$\frac{1}{4}$ inch square, 4	to 8	1.00
$\frac{5}{16}$ inch square, $3\frac{1}{2}$		.95
$\frac{5}{16}$ inch square, 4	to 8	.70
$\frac{3}{8}$ inch square, 3	to $3\frac{1}{2}$	.80
$\frac{3}{8}$ inch square, 4	to 12	.55
$\frac{7}{16}$ inch square, 6	to 12	.45
$\frac{1}{2}$ inch square, 6	to 12	.40
$\frac{5}{8}$ inch square, 8	to 14	.40

OTHER SIZES: Other than regular sizes shown above, can be furnished at a slight extra charge.

Packed in 200-lb. kegs.

Approximate Number of Boat Spikes per Keg of 200 Pounds

	Length, Inches			
	4	5	6	7
$\frac{5}{8}$ in. sq.	...	...	...	...
$\frac{1}{2}$ in. sq.	...	...	...	480
$\frac{7}{16}$ in. sq.	...	...	...	690
$\frac{3}{8}$ in. sq.	1,114	930	816	978
$\frac{5}{16}$ in. sq.	1,776	1,342	1,124	1,488
$\frac{1}{4}$ in. sq.	2,576	2,134	1,778	1,488

	Length, Inches						
	8	9	10	11	12	13	14
$\frac{5}{8}$ in. sq.	214	190	176	...	144	...	122
$\frac{1}{2}$ in. sq.	324	286	258	244	220	...	192
$\frac{7}{16}$ in. sq.	438	...	378	...	...	...	...
$\frac{3}{8}$ in. sq.	622	532	492	...	434	...	...
$\frac{5}{16}$ in. sq.	858	776	706	...	...	...	...
$\frac{1}{4}$ in. sq.	1,382	...	...	...	...	...	...

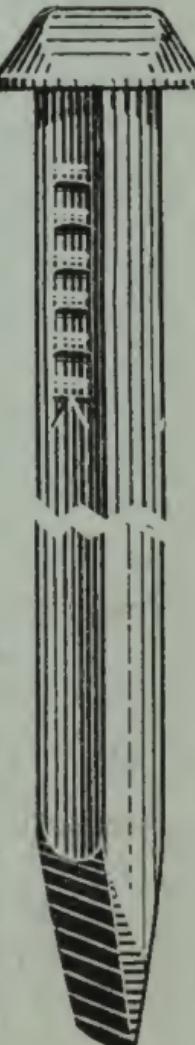
NOTE—The above is given as **approximate**, and the Company is not to be bound in any way to protect these figures.

These are driven mostly in hard timbers and it stands to reason that a spike with a clean-cut sharp, chisel point will facilitate the work.

Our process of manufacture insures a product that has all the essential features necessary in a spike that will drive easily and hold well after driven.

The proper stock is used to make spikes that will drive straight and true, and our product runs uniform as to lengths and gauge. Heads will not fly off.

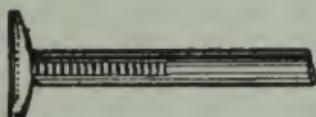
For a first-class job in bridge or trestle work use **AMERICAN STEEL & WIRE COMPANY Boat Spikes.**



Sheet Roofing Fasteners. Egg Case or Crate Fasteners, and Meat Tag Fasteners

Sheet Roofing Fasteners

Flat Head



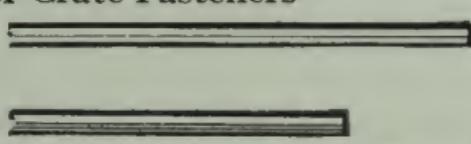
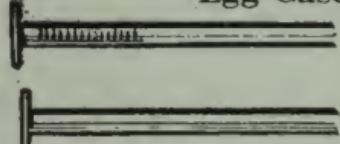
Curved Head

Made in the Following Sizes
Am. Steel & Wire Co.'s Steel Wire Gauge

Length	Diameter	Approximate Count per Pound
6 inch.....	$\frac{1}{8}$ inch	46
7 "	$\frac{1}{8}$ inch	40
8 "	$\frac{1}{8}$ inch	34
9 "	$\frac{1}{8}$ inch	31
10 "	$\frac{1}{8}$ inch	28
12 "	$\frac{1}{8}$ inch	23
14 "	$\frac{1}{8}$ inch	20
8 "	No. 10 gauge	30
9 "	"	27
10 "	"	24
12 "	"	20
13 "	"	...
14 "	"	...
15 "	"	...
15 $\frac{1}{2}$ "	"	...

Annealed or galvanized

Egg Case or Crate Fasteners



These fasteners are made in different sizes, according to specifications. Price upon application.



Meat Tag Fasteners

Packed 1,000 in a carton, 150 cartons to the case. Also in kegs. Approximately 1,000 to the pound. Coppered or tinned.

Actual Size



Solid Copper Wire Nails

The life of a roof largely depends upon its fastening. Regardless of the roofing material used, its service ends when the nails fail.

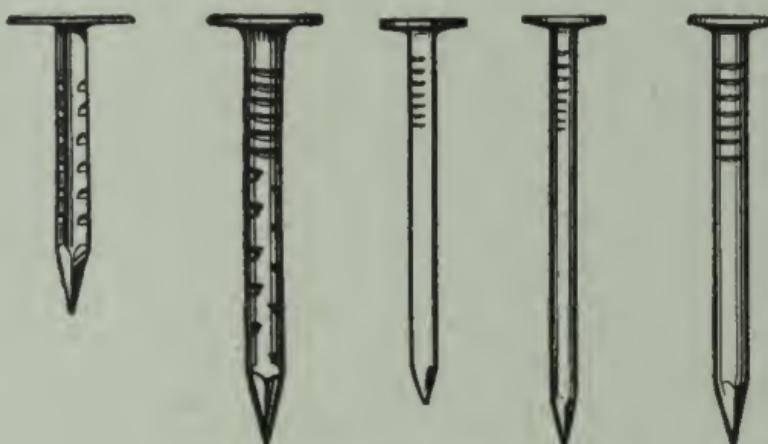
Copper Nails last indefinitely. They are moisture and corrosion proof and will not "frost-crack."

Contractors agree as to the superior advantages of Copper Nails.

Copper Nails are used for many purposes besides roofing and we can supply any size or style required, but make regularly—

ROOFING
SLATING

SHINGLE
COMMON



FIRE DOOR NAILS

Nails for use in applying the metal covering to wood cores of tin clad Fire Doors have been variously specified but usually by length and gauge.

Recently the Underwriters' Laboratories have established new limits as to maximum and minimum diameters which will be acceptable and these limits permit the furnishing of various Standard Nails. Their requirements call for Nails not less than 0.09 inch nor heavier than 0.100 inch in diameter and the usual lengths called for are 1½ inch and 2 inch.

These specifications will permit the use of 3d Shingle Nails or 6d Box Nails which are of the following dimensions:

3d Shingle 1½ inch No. 13 gauge

6d Box 2 inch No. 12½ gauge

Fire Door Nails are usually called for full barbed.



Miscellaneous List

Price Per Pound of Flat or Brad Head Coated Nails in 1, 5, or 10 Pound Packages

No.	$\frac{1}{4}$ Inch	No.	$\frac{3}{4}$ Inch	No.	$1\frac{1}{8}$ Inch
19.	\$1.04	10-12.	\$0.40	7-12.	\$0.34
20.	1.29	13, 14.	.42	13.	.35
21.	1.59	15.	.46	14, 15.	.36
22.	1.94	16.	.47	16.	.39
		17.	.50	17.	.44
No.	$\frac{3}{8}$ Inch	18.	.56	18.	.47
18.	\$0.84	19.	.64	19.	.57
19.	.94	20.	.74		$1\frac{1}{4}$ and
20.	1.04	21.	.89		$1\frac{3}{8}$ Inch
21.	1.29	No.	$\frac{7}{8}$ Inch	6-12.	\$0.33
22.	1.59	8-12.	\$0.37	13.	.34
No.	$\frac{1}{2}$ Inch	13.	.38	14.	.35
14-16.	\$0.59	14.	.39	15.	.36
17.	.64	15.	.40	16.	.38
18.	.69	16.	.43	17.	.43
19.	.79	17.	.47		$1\frac{1}{2}$ and
20.	.89	18.	.49		$1\frac{5}{8}$ Inch
21.	1.04	19.	.60	4-13.	\$0.33
22.	1.29	20.	.71	14.	.34
No.	$\frac{5}{8}$ Inch	No.	1 Inch	15.	.35
12-14.	\$0.47	7-12.	\$0.34	16.	.37
15.	.49	13.	.35	17.	.42
16.	.54	14.	.36	No.	$1\frac{3}{4}$ Inch
17.	.56	15.	.37	4-13.	\$0.32
18.	.62	16.	.40	14.	.33
19.	.69	17.	.44	15.	.34
20.	.79	18.	.47	16.	.36
21.	.89	19.	.57	17.	.42
22.	1.14	20.	.68		

LIST OF EXTRAS—Subject to Discount

Add to list, 3 cents per pound for barbing. 3 cents per pounds for annealing. 3 cents per pound for Special Heads. 3 cents per pound for Special Points.

Nails heavier or longer than listed, at special net prices, according to quantity.

DEDUCTIONS FROM LIST PRICES

Deductions for 25 and 50 pound boxes, 2 cents per pound.
Deductions for nails in 100 pound kegs, 4 cents per pound.

SEE PAGE 7 FOR QUANTITY EXTRAS



SEPTEMBER 1st, 1926
EXTRAS IN 100 LB. KEGS

American Steel & Wire Company's Steel Wire Gauges

Coolers				Corkers							
Size	Length and Gauge	Advance Over Base per 100 Lbs.	Approximate No. Nails per Lb.	Size	Length and Gauge	Advance Over Base per 100 Lbs.	Approximate No. Nails per Lb.				
2d	1 x16	\$2.40	1084	2d	1 x16	\$2.40	1084				
3d	1 1/8x15 1/2	1.90	848	3d	1 1/4x15	1.80	678				
4d	1 1/8x14	1.55	488	4d	1 1/2x13 1/2	1.50	392				
5d	1 1/8x13 1/2	1.35	364	5d	1 5/8x13 1/2	1.35	364				
6d	1 1/8x13	1.15	275	6d	1 3/8x12 1/2	1.05	232				
7d	2 3/8x12 1/2	.90	212	7d	2 3/8x12 1/2	.90	212				
8d	2 3/8x11 1/2	.75	142	8d	2 3/8x11	.70	129				
9d	2 3/8x11 1/2	.75	130	9d	2 3/8x11	.70	114				
10d	2 3/8x11	.65	104	10d	2 3/8x10	.60	84				
Sinkers											
2d	1 x16	\$2.40	1084	12d	3 3/8x10	.55	77				
3d	1 1/8x15 1/2	1.90	848	16d	3 3/8x 9	.45	59				
4d	1 1/8x14	1.55	488	20d	3 7/8x 7	.35	36				
5d	1 1/8x13 1/2	1.35	364	30d	4 3/8x 6	.35	27				
6d	1 1/8x13	1.15	275	40d	4 7/8x 5	.35	21				
7d	2 3/8x12 1/2	.90	212	50d	5 3/8x 4	.35	16				
8d	2 3/8x11 1/2	.75	142	60d	5 7/8x 3	.35	12				
9d	2 3/8x11 1/2	.75	130	Egg Case Nails							
10d	2 3/8x11	.65	104	2d	1 x16	\$2.65	1050				
12d	3 3/8x10	.55	77	3d	1 1/8x15	2.15	738				
16d	3 1/4 x 9	.45	61	4d	1 3/2x14	1.80	435				
20d	3 3/8 x 7	.35	37	Box Nails							
30d	4 1/4 x 6	.35	29	2d	1 x16 1/2	\$2.55	1300				
40d	4 1/4 x 5	.35	21	3d	1 1/8x16	2.05	950				
50d	5 1/8 x 4	.35	16	4d	1 3/8x15 1/2	1.90	710				
60d	5 5/8 x 3	.35	13	5d	1 5/8x15	1.70	536				
Fruit Box Nails											
4d	1 1/8x15	\$1.95	623	6d	1 1/8x13 1/2	1.30	306				
Veneer Box Nails											
4d	1 3/2x14	\$1.95	435	7d	2 1/8x13 1/2	1.20	268				
Apple Box Nails											
5d	1 1/8x14	\$1.50	418	8d	2 3/8x12 1/2	1.00	186				
5 1/2d	1 1/4 x 14	\$1.40	388	9d	2 5/8x12 1/2	1.00	167				
Orange Box Nails											
4d	1 1/4 x 15	\$2.00	679	10d	2 3/8x11 1/2	.90	118				

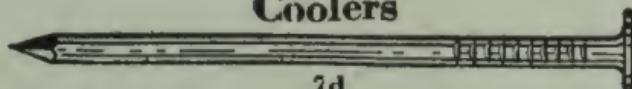
American Steel & Wire Co.'s Steel Wire Gauge

Heavy Barbed Car Nails				Light Barbed Car Nails			
Size	Length and Gauge	Advance Over Base per 100 Lbs.	Approximate No. Nails per Lb.	Size	Length and Gauge	Advance Over Base per 100 Lbs.	Approximate No. Nails per Lb.
4d	1 3/8x12	\$1.20	274	4d	1 3/8x13	\$1.35	335
5d	1 1/4 x 10	1.00	138	5d	1 3/4 x 11	1.05	176
6d	2 x 10	.95	117	6d	2 x 11	1.00	149
7d	2 1/4 x 9	.85	85	7d	2 1/4 x 10	.85	103
8d	2 1/2 x 9	.75	78	8d	2 3/8x10	.75	96
9d	2 3/8 x 8	.75	62	9d	2 3/4 x 9	.75	74
10d	3 x 8	.70	55	10d	3 x 9	.70	65
12d	3 1/4 x 7	.65	44	12d	3 1/4 x 8	.70	51
16d	3 3/8 x 7	.60	38	16d	3 3/8 x 8	.65	48
20d	4 x 6	.50	29	20d	4 x 7	.50	36
30d	4 1/2 x 6	.50	26	30d	4 1/2 x 7	.50	31
40d	5 x 5	.50	20	40d	5 x 6	.50	24
50d	5 1/2 x 4	.50	15	50d	5 1/2 x 5	.50	17
60d	6 x 4	.50	14	60d	6 x 5	.50	16

SPECIAL EXTRAS ON PEARSON COATED NAILS

Barbed Nails, 25c per 100 lbs. extra (except as provided for above).
Special Heads, 15c per 100 lbs. extra. Special Points, 15c per 100 lbs. extra.

Coolers



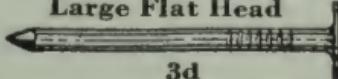
The original Pearson Nail—same as the Sinkers in all particulars except the head. The Cooler head is flat underneath and of slightly greater diameter than that of the Sinkers. Coolers are perfectly satisfactory for hand driving in the softer woods, but are especially designed for machine driving in boxes, crates, or other shipping packages.

American Steel & Wire Co.'s Steel Wire Gauge

Size	Advance over Base	Number of Nails Per Lb.	Length (Inches)	Gauge No.
2d	\$2.40	1084	1	16
3d	1.90	848	1 $\frac{1}{8}$	15 $\frac{1}{2}$
4d	1.55	488	1 $\frac{3}{8}$	14
5d	1.35	364	1 $\frac{5}{8}$	13 $\frac{1}{2}$
6d	1.15	275	1 $\frac{7}{8}$	13
7d	.90	212	2 $\frac{1}{8}$	12 $\frac{1}{2}$
8d	.75	142	2 $\frac{3}{8}$	11 $\frac{1}{2}$
9d	.75	130	2 $\frac{5}{8}$	11 $\frac{1}{2}$
10d	.65	104	2 $\frac{7}{8}$	11

Egg Case Nails

Large Flat Head



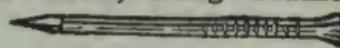
Endorsed by the carriers, and having every feature desirable for the use intended, these are undoubtedly the only perfect nails for egg cases.

American Steel & Wire Co.'s Steel Wire Gauge

Size	Advance over Base	Number of Nails Per Lb.	Length (Inches)	Gauge No.
2d	\$2.65	1050	1	16
3d	2.15	738	1 $\frac{1}{8}$	15
4d	1.80	435	1 $\frac{1}{2}$	14

Parquet Floor Nails

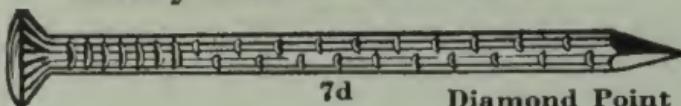
Deep Countersunk Head, Long Diamond Point

1 $\frac{1}{8}$ INCH x 15

They leave a small, clean, easily puttied hole. The holding-power of the coating overcomes any tendency of the floor to spring or squeak. Net prices quoted on application.

LENGTHS: 1 $\frac{1}{8}$ inch and 1 $\frac{1}{4}$ inch. GAUGES: Nos. 15 and 16. POINTS: Either Long Diamond or Needle. PACKINGS: In 100 lb. kegs and 25 lb. boxes.

Heavy Barbed Car Nails



7d

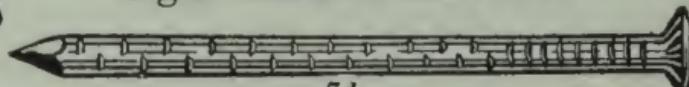
Diamond Point

Specify whether Csk. Oval or Flat Csk. Heads

American Steel & Wire Co.'s Steel Wire Gauge

Size	Advance over Base	Number of Nails Per Lb.	Length (Inches)	Gauge No.
4d	\$1.20	274	1 1/2	12
5d	1.00	138	1 3/4	10
6d	.95	117	2	10
7d	.85	85	2 1/4	9
8d	.75	78	2 1/2	9
9d	.75	62	2 3/4	8
10d	.70	55	3	8
12d	.65	44	3 1/4	7
16d	.60	38	3 1/2	7
20d	.50	29	4	6
30d	.50	26	4 1/2	6
40d	.50	20	5	5
50d	.50	15	5 1/2	4
60d	.50	14	6	4

Light Barbed Car Nails



7d

Specify whether Csk. Oval or Flat Csk. Heads

American Steel & Wire Co.'s Steel Wire Gauge

Size	Advance over Base	Number of Nails Per Lb.	Length (Inches)	Gauge No.
4d	\$1.35	335	1 1/2	13
5d	1.05	176	1 3/4	11
6d	1.00	149	2	11
7d	.85	103	2 1/4	10
8d	.75	96	2 1/2	10
9d	.75	74	2 3/4	9
10d	.70	65	3	9
12d	.70	51	3 1/4	8
16d	.65	48	3 1/2	8
20d	.50	36	4	7
30d	.50	31	4 1/2	7
40d	.50	24	5	6
50d	.50	17	5 1/2	5
60d	.50	16	6	5

Special Box Nails
Large Flat Head—Diamond Point



Orange Box



For Western orange boxes and other fruit packages.

NOTE.—As a great majority of 4d Box Nails used on the Pacific Coast are for orange boxes, Orange Box Nails will be shipped on all orders sent to our Pacific Coast Agents for "4d Box Nails," instead of the regular 4d Box Nails shown on page 9, unless orders specifically instruct to the contrary. This does not apply to any but orders from Pacific Coast territory. When wanted elsewhere "Orange Box Nails" must be specified on the order.

American Steel & Wire Co.'s Steel Wire Gauge

Size	Advance over Base	Number of Nails Per Lb.	Length (Inches)	Gauge No.
4d	\$2.00	679	1 1/4	15

Fruit Box
Large Flat Head—Diamond Point



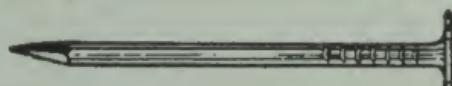
For Southern orange boxes, pineapple crates, and other fruit packages.

NOTE.—When Fruit Box Nails are wanted instead of the regular 4d Box, it should be distinctly so specified on orders.

American Steel & Wire Co.'s Steel Wire Gauge

4d	\$1.95	623	1 3/8	15
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Veneer Box
Large Flat Head—Needle Point



For hoopless orange boxes.

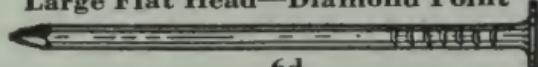
American Steel & Wire Co.'s Steel Wire Gauge

Size	Advance over Base	Number of Nails Per Lb.	Length (Inches)	Gauge No.
4d	\$1.95	435	1 1/2	14

Apple Box
Large Flat Head—Diamond Point



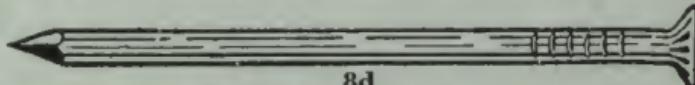
5d	\$1.50	418	1 5/8	14
5 1/2 d	1.40	388	1 3/4	14

Box Nails**Large Flat Head—Diamond Point****6d**

Box Nails are necessarily lighter in wire than Sinkers, but where conditions permit of their use are economical because of the larger count.

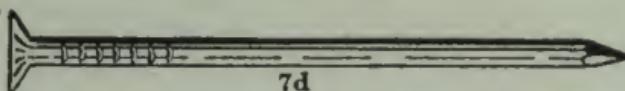
American Steel & Wire Co.'s Steel Wire Gauge

Size	Advance over Base	Number of Nails Per Lb.	Length (Inches)	Gauge No.
2d	\$2.55	1300	1	16½
3d	2.05	950	1 1/8	16
4d	1.90	710	1 3/8	15½
5d	1.70	536	1 5/8	15
6d	1.30	306	1 7/8	13½
7d	1.20	268	2 1/8	13½
8d	1.00	186	2 3/8	12½
9d	1.00	167	2 5/8	12½
10d	.90	118	2 7/8	11½

Corkers**Flat Countersunk Head, Diamond Point****8d****American Steel & Wire Co.'s Steel Wire Gauge**

Size	Advance over Base	Number of Nails Per Lb.	Length (Inches)	Gauge No.
2d	\$2.40	1084	1	16
3d	1.80	678	1 1/4	15
4d	1.50	392	1 1/2	13 1/2
5d	1.35	364	1 5/8	13 1/2
6d	1.05	232	1 7/8	12 1/2
7d	.90	212	2 1/8	12 1/2
8d	.70	129	2 3/8	11
9d	.70	114	2 5/8	11
10d	.60	84	2 7/8	10
12d	.55	77	3 1/8	10
16d	.45	59	3 3/8	9
20d	.35	36	3 7/8	7
30d	.35	27	4 3/8	6
40d	.35	21	4 7/8	5
50d	.35	16	5 3/8	4
60d	.35	12	5 7/8	3

Sinkers

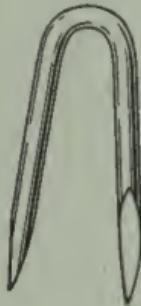


The best all-around nail made for either hand or machine driving. For use in all styles of wooden shipping packages and for all the every day uses to which nails are put. The heads cannot break or pull off.

American Steel & Wire Co.'s Steel Wire Gauge

Size	Advance over Base	Number of Nails Per Lb.	Length (Inches)	Gauge No.
2d	\$2.40	1084	1	16
3d	1.90	848	1 $\frac{1}{8}$	15 $\frac{1}{2}$
4d	1.55	488	1 $\frac{3}{8}$	14
5d	1.35	364	1 $\frac{5}{8}$	13 $\frac{1}{2}$
6d	1.15	275	1 $\frac{7}{8}$	13
7d	.90	212	2 $\frac{1}{8}$	12 $\frac{1}{2}$
8d	.75	142	2 $\frac{3}{8}$	11 $\frac{1}{2}$
9d	.75	130	2 $\frac{5}{8}$	11 $\frac{1}{2}$
10d	.65	104	2 $\frac{7}{8}$	11
12d	.55	77	3 $\frac{1}{8}$	10
16d	.45	61	3 $\frac{1}{4}$	9
20d	.35	37	3 $\frac{3}{4}$	7
30d	.35	29	4 $\frac{1}{4}$	6
40d	.35	21	4 $\frac{3}{4}$	5
50d	.35	16	5 $\frac{1}{4}$	4
60d	.35	13	5 $\frac{3}{4}$	3

Corner Bead Staples



Usually polished style 2" length No. 8 gauge with $\frac{1}{8}$ " spread at points $\frac{3}{8}$ " at shoulder.

For applying metal beading and metal lath to building tile.

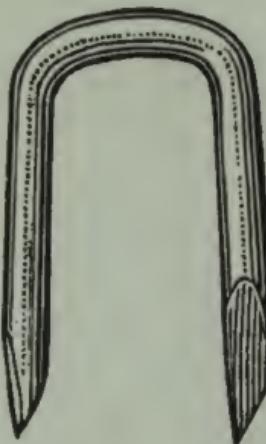


Brick Staples

Usually polished style, 2 $\frac{1}{2}$ " length No. 6 gauge. With $\frac{3}{8}$ " uniform spread.

Ribbon Wire Staples

For stapling flat twisted ribbon wire. Cut from No. 9 wire in $1\frac{1}{2}$ -in., $1\frac{3}{4}$ -in. and 2-in. lengths.



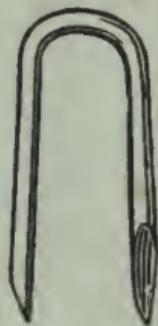
Metal Lath Staples

Furnished in Standard size, 1-in., $1\frac{1}{8}$ -in., $1\frac{1}{4}$ -in., and $1\frac{1}{2}$ -in. No. 14 gauge. Principal demand is for 1-in.

Furnished in following finishes:

BLUED, POLISHED or GALVANIZED.

NOTE: Blued staples packed in paper lined kegs are considered Standard and will be furnished unless otherwise specified. This finish usually called for because lathers carry in mouth, and process of manufacture insures a sanitary product, free from grease and dirt. There is a growing demand for this style staple same as for sterilized blued lath nails.



Galvanized Hoop Staples

Used for Putting on Wire Hoops

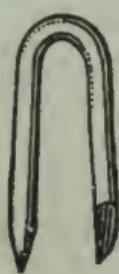
Full Size		Number of Galvanized Wire Hoops Staples to the pounds
$\frac{1}{2}$ -in.	$\frac{5}{8}$ -in.	
No. 14 Gauge Wire		
$\frac{5}{8}$ inch, No. 14		568
$\frac{1}{2}$ inch, No. 14		610



Galvanized Poultry Netting Staples

Packed in 100-lb. kegs; 50, 25, 10 and 5-lb. wooden boxes; 5 and 10-lb. and 1-lb. papers.

All 5 and 10-lb. paper packages are packed in wooden boxes for shipment.



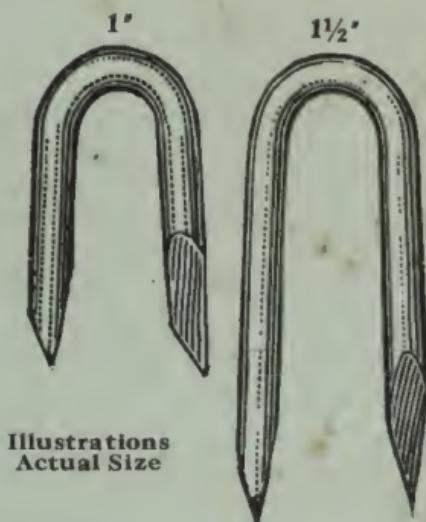
Number of Poultry Netting Staples
to the pound

$\frac{3}{4}$ inch, No. 14	480
$\frac{7}{8}$ inch, No. 14	416
1 inch, No. 14	352

The spread of all staples is measured at the shoulder and not at the points.

Fence Staples

Length	Approximate No. to Lb. No. 9
$\frac{3}{4}$	152
$\frac{5}{8}$	120
1	108
$1\frac{1}{8}$	96
$1\frac{1}{4}$	87
$1\frac{1}{2}$	72
$1\frac{3}{4}$	65
2	58
$2\frac{1}{4}$	47
$2\frac{1}{2}$	40



Illustrations
Actual Size

Annealed, Polished or Galvanized

Am. Steel & Wire Co.'s Steel Wire Gauge

Made of No. 9 gauge wire.....	base price.
Made of No. 8 gauge wire or coarser.....	25 cts. per 100 lbs. extra.
Made of No. 10 gauge wire.....	20 cts. per 100 lbs. extra.
Made of No. 11 gauge wire.....	30 cts. per 100 lbs. extra.
Made of No. 12 gauge wire.....	45 cts. per 100 lbs. extra.
Made of No. 13 gauge wire.....	65 cts. per 100 lbs. extra.

Staples longer than $2\frac{1}{2}$ inches and up to 3 inches, 50 cts. per 100 lbs., extra. Cannot furnish staples longer than 3 inches.

Annealed staples same price as polished.

Barbed staples, all lengths and gauges, 25 cts. per 100 lbs., extra.

Oiling staples, 15 cts. per 100 lbs., extra.

Special Spread Staples Subject to Quantity Extras.



Steel Fence-Post Staples

Usually made in $1\frac{1}{2}$ -inch length of No. 10 gauge wire, with $\frac{3}{16}$ -inch spread.

Bright or Galvanized

These staples are placed in punched holes of steel fence posts and points are clinched on the opposite side.

Illustration
Actual Size

American Barbed Wire

WE are the originators of barbed wire, and our mills making it today are the same ones first employed to produce it.

Barbed wire is one of the most practical of inventions and its claim for extensive usage is based upon its utility, low cost and durability.

From the first we have maintained these three factors at the highest point, keeping pace with the ever-increasing efficiency in wire making and galvanizing.

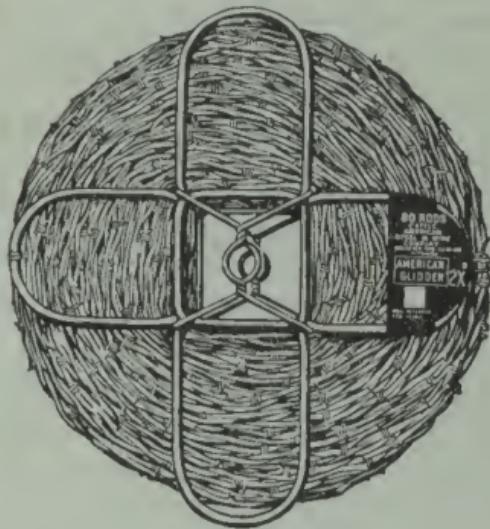
Our brands of American Barbed Wire are known throughout the world to be unequaled for qualities *uniformly* to be relied upon; tensile strength by the employment of the highest quality steel for the purpose; regularity of twist; firmness, and sharpness of barbs by the employment of experienced supervision and the most modern and efficient machinery; excellent galvanizing, uniform winding on steel reels, patented and exclusively used by us.

All brands of barbed wire made by us are plainly stenciled with the brand and registered trade marks. Customers who want good quality should insist on getting our well-known brands. Our motto is "KEEP UP THE QUALITY."

We guarantee full weight for the even 100 lb. reels and full length for the 80 Rod spools.

Ask for and insist on getting any of the old reliable brands illustrated and described on the following pages.

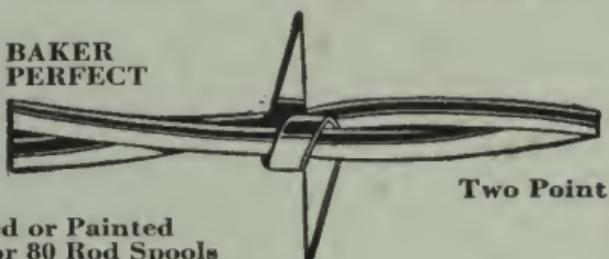
SPECIAL GALVANIZED BARBED WIRE. In addition to furnishing our different brands of barbed wire, either painted or galvanized, we will also furnish the same brands special galvanized, of same quality of galvanizing as our telephone and telegraph wire.



These are the long-used and established trade marks on our special brands of American Barbed Wire. Each in its own field stands for quality and excellence.

American Barbed Wire—Continued

Baker Perfect Two Point (Two Prongs)



Galvanized or Painted 100 lb. Reels or 80 Rod Spools

A very popular brand which has stood the test for 30 years, and is a strong favorite wherever used. The flat barbs hold firmly in place and show up sharp and clear.

There are many *so-called* Baker brands on the market, but only one genuine and original Baker Perfect. If you want the genuine, order BAKER PERFECT, and look for the registered trade mark on the spools.

Even weight 100 lb. reels sold by weight.

80 Rod Spools sold at a price per spool, and guaranteed to contain full 80 rods.

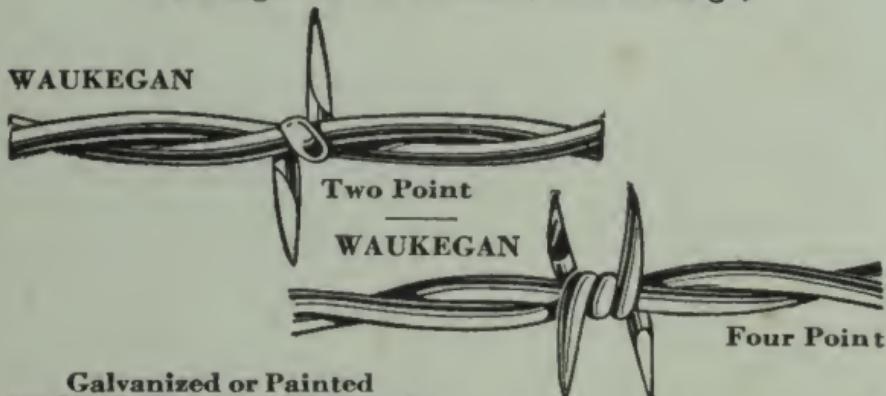
Thickset or Hog, barbs about 3 inches apart.

Regular or Cattle wire, barbs about 5 inches apart.

Main strands No. 12½ steel wire gauge.

Flat barbs wrapped once around one of the main strands.

Waukegan Two Point (Two Prongs) Waukegan Four Point (Four Prongs)



Galvanized or Painted 100 lb. Reels or 80 Rod Spools

Put up on *red spools* under the registered trade mark "WAUKEGAN CHIEF." Indian head stamped on every spool. Universally recognized as the most perfect barb wire made. If you want the best, order the WAUKEGAN on *red spools* with Indian head.

Even weight 100 lb. reels sold by weight.

80 Rod Spools sold at a price per spool, and guaranteed to contain full 80 rods.

Thickset or Hog wire, barbs about 3 inches apart.

Regular or Cattle wire, 2 point barbs about 5 inches apart.

Regular or Cattle wire, 4 point barbs about 6 inches apart.

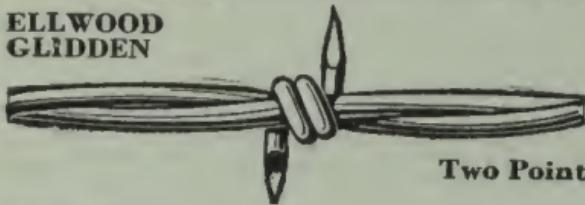
Main strands of No. 12½ steel wire gauge.

Barbs are half round and each barb is wrapped once around the main strands. This makes a single wrap for the 2 point wire and a double wrap for the 4 point.

American Barbed Wire—Continued

Ellwood Glidden Two Point (Two Prongs)

ELLWOOD
GLIDDEN



Two Point

Galvanized or Painted 100 lb. Reels or 80 Rod Spools

This is the original "GENUINE GLIDDEN". Always sold under the Diamond "E" trade mark. Look for this trade mark on the spool when you buy this old, reliable brand.

Even weight 100 lb. reels sold by weight.

80 Rod Spools sold at a price per spool, and guaranteed to contain full 80 rods.

Thickset or Hog wire, barbs about 3 inches apart.

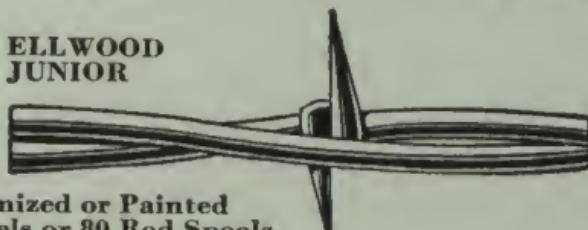
Regular or Cattle wire, barbs about 5 inches apart.

Main strands of No. 12½ steel wire gauge.

Round barbs of No. 14 steel wire gauge wrapped twice around one of the main strands.

Ellwood Junior Two Point (Two Prongs)

ELLWOOD
JUNIOR



Galvanized or Painted 100 lb. Reels or 80 Rod Spools

Made with half-round barbs and full strength strands. A good combination for a light weight, yet substantial, barb wire fence. No sacrifice of strength for saving in weight.

Even weight 100 lb. reels sold by weight.

80 Rod Spools sold at a price per spool, and guaranteed to contain full 80 rods.

Thickset or Hog wire, barbs about 3 inches apart.

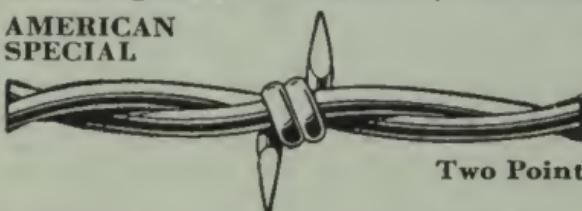
Regular or Cattle wire, barbs about 5 inches apart.

Main strands of No. 12½ steel wire gauge.

Half round barbs wrapped once around one of the main strands.

American Special Two Point (Two Prongs)

AMERICAN
SPECIAL



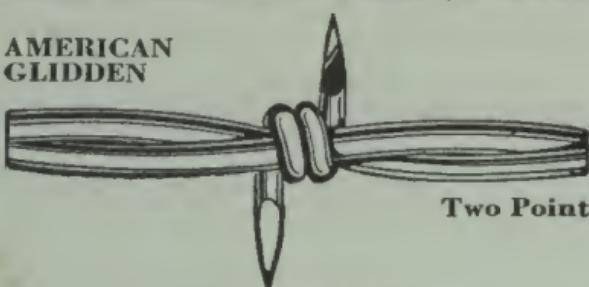
Two Point

Made in Galvanized only. Put up only on 80 rod spools. Thickset or Hog wire, barbs about 3 inches apart. Regular or Cattle wire, barbs about 5 inches apart. Main strands of No. 14 steel wire gauge. Barbs are round and of No. 16 steel wire gauge wrapped twice around one of the main strands.

American Barbed Wire—Continued

American Glidden Two Point (Two Prongs)

AMERICAN
GLIDDEN



Two Point

Galvanized or Painted
100 lb. Reels or 80 Rod Spools

The popular brand in all sections and for all general hog and cattle fence purposes—has many imitations, but no equal. If you want Glidden pattern insist on AMERICAN GLIDDEN. Even weight 100 lb. reels sold by weight.

Made in Thickset or Hog wire, barbs about 3 inches apart.

Made in Regular or Cattle wire, barbs about 5 inches apart.

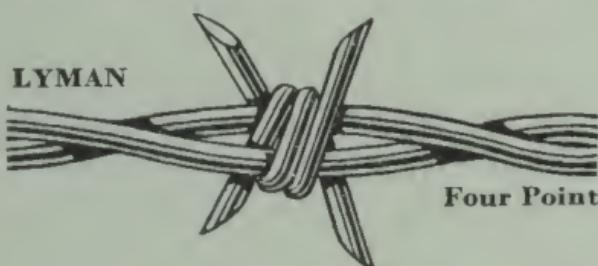
Main strands of No. 12 steel wire gauge in 100 lb. reels and 12½ gauge in the 80 rod spools.

Round Barbs of No. 14 steel wire gauge wrapped twice around one of the main strands.

80 ROD SPOOLS sold at a price per spool, and guaranteed to contain full 80 rods.

Lyman Four Point (Four Prongs)

LYMAN



Four Point

Galvanized or Painted
100 lb. Reels or 80 Rod Spools

One of the oldest brands of barb wire on the market—the best barb wire to use when a strong, heavy barb wire fence is required. Is an effective barrier against hogs and all kinds of stock. Easily seen by animals on account of the larger size barbs. Even weight 100 lb. reels sold by weight.

Thickset or Hog wire, barbs about 4 inches apart.

Regular or Cattle wire, barbs about 6 inches apart.

Main strands of No. 12 steel wire gauge in 100 lb. reels and 12½ gauge in the 80 rod spools.

Round barbs of No. 13 gauge in the 100 lb. reels and 14 gauge in the 80 rod spools.

Each barb consists of two pieces of wire one wrapped around one main strand and then around both main strands. The other piece interlocked and wrapped around both main strands.

80 ROD SPOOLS sold at a price per spool and guaranteed to contain full 80 rods.

Twisted Barbless Ribbon and Coiled Spring Steel Fence Wire

Twisted Barbless Wire, Galvanized, Painted or Annealed



Regularly furnished, wound on barbed wire reels 100 pounds each. Galvanized 2 ply 12½ also furnished on 80-rod spools.

Regularly made in following sizes:

2 ply, No. 11, 12 and 12½	Same price as American Glidden Barb Wire
	Per 100 Lbs.
2 ply, Nos. 8, 9 and 10	\$0.15
2 ply, Nos. 13 and 14	.30
3 and 4 ply, Nos. 8, 9 and 10	.40
3 and 4 ply, Nos. 11, 12 and 12½	.25
3 and 4 ply, Nos. 13 and 14	.55

} Advance over
} American
} Glidden Barbed
} Wire

Above sizes are regularly made, but other styles can be furnished.

Galvanized Flat Twisted Ribbon Wire



Made from $\frac{1}{2}$ inch No. 17 gauge wire and extra galvanized. Weight approximately 9 feet to the pound. Put up in catch weight reels.

This material usually purchased for fencing blooded stock and high grade horses, also used for fencing purposes by parks and cemeteries.

Galvanized Coiled Spring Steel Fence Wire



Made in sizes 7 to 12, inclusive.

Put up regularly in catch weight bundles, but can also be furnished in even 100 pound bundles without extra charge.

This coiled wire is used for making fences in various forms. We put into this wire the best stock, and it is so coiled that it will retain its springiness against all expansion and contraction due to weather conditions.

American Steel & Wire Co.'s Steel Wire Gauge

	Ft. per lb.
No. 7	11
No. 8	13.33
No. 9	16.7
No. 10	20
No. 11	24.61
No. 12	32

Extras on Annealed and Galvanized Fence Wire

SIZES American Steel & Wire Company's Steel Wire Gauge	Annealed Wire Extra for Size Over Base Price	Galvanized Wire Extra for Size Over Base Price
No. 0 to No. 5, Inc.	Base	\$0.25
No. 6 to No. 9, Inc.	Base	Base
No. 10.	\$0.05	.05
No. 11. ....	.10	.10
No. 12—No. 12½. ....	.15	.20
No. 13. ....	.25	.35
No. 14. ....	.35	.55
No. 15. ....	.55	.85
No. 16. ....	.75	1.05
No. 17.	1.00	1.40
No. 18.	1.50	1.90

Even weight bundles 5c per bundle extra, except 100-lb. bundles which are considered standard and take no extra charge.

Galvanized Brace Wire

Furnished Nos. 8 and 9 gauge wire, in 5-lb. coils, packed 20 coils to the bundle of 100 lbs. Sold in even 100-lb. quantities or multiples thereof, at \$1.00 per 100 lbs. advance over price of No. 8 Galvanized Plain Fence Wire which is shown above.

Stone Wire

Made in sizes No. 16 gauge and finer. Bright, Annealed, Galvanized, Tinned and Coppered finishes.

Put up in 8-inch inside diameter coils, weighing 12 pounds each and paper wrapped.





Soft Galvanized Wire Now in Handy Coils

The same high grade wire as put up in larger coils is now available in HANDY 10 or 25 pound coils. Sizes 9 to 18, inclusive.

Easy to handle and easy to display—Packs well in stock—Saves Dealers time—No cutting from large coil necessary—Avoids tangled wire.

A handy coil for quick and convenient use.



10 Lb. Coil
8" Inside Diameter

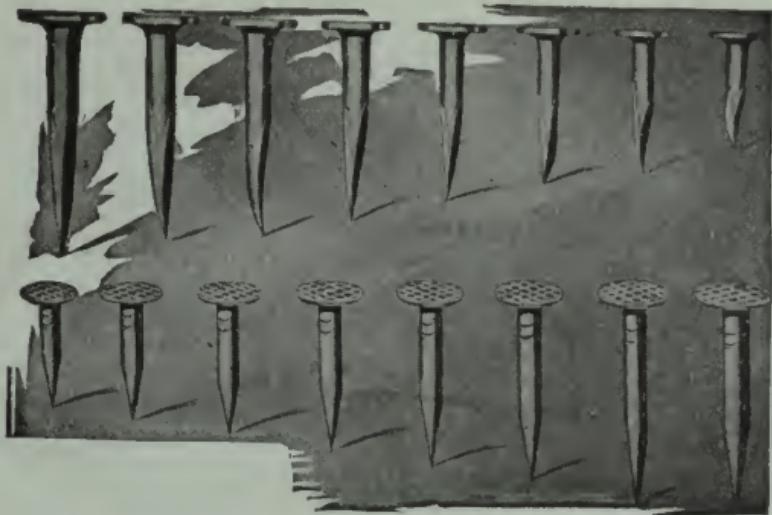


25 Lb. Coil 22" Inside Diameter

*Note How Well
it Packs on the
Shelf*



American Wire and Peerless Tacks



Made of High Grade Tack Steel Strong Heads—Sharp Pointed

Furnished in either carpet, upholsterer, bill-poster or railroad styles in polished, blued, tinned, coppered or galvanized finish.

Manner of Packing

$\frac{1}{8}$ -lb. papers, packed in packages of 12 papers (called a dozen) and 50 dozen in a full case lot.

$\frac{1}{4}$ -lb. papers, packed in packages of 12 papers (called a dozen) and 50 dozen in a full case lot.

$\frac{1}{2}$ -lb. papers are not dozened and are packed 100 lbs. (200 papers) in a full case.

1-lb. papers are packed 100 lbs. (100 papers) to a full case lot.

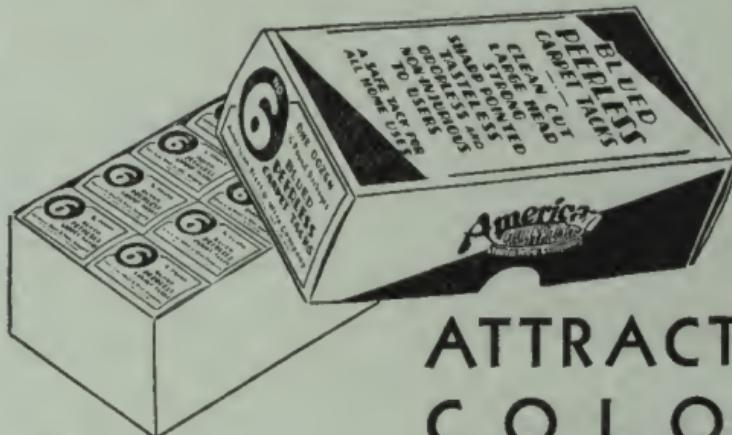
All packages are Packed Full Net Weight of the Size or Kind Designated.

Solid Copper Tacks

Where moisture is encountered where weather resistance is required, no better tack can be used than those made from COPPER.

We issue a completely illustrated TACK catalogue giving full details.

AMERICAN AND PEERLESS TACKS IMPROVED PACKAGES



ATTRACTIVE COLORS

SUPERIOR IN EVERY WAY

... AND

THE SAME
HIGH QUALITY
OF TACK
INSIDE THE
PACKAGE



The American Steel & Wire Company is proud of its new American and Peerless Tack packages . . . but it is still more proud of the quality tacks they enclose.

LIST PRICES AND WEIGHTS

Galvanized AMERICAN Clothes Lines

BOLLOW CABLE

No.	Description	No. of Wires	American Steel & WireCo.s STEEL WIRE GAUGE No.	LIST PRICE PER DOZEN COILS BBL. LOTS		
				100 Ft.	75 Ft.	50 Ft
1		7	22	\$ 5.60	\$4.40	\$3.15
2		9	22	6.30	4.95	3.50
3		12	22	7.50	5.90	4.20
4		11	20	9.30	7.30	5.20

TWISTED

16		6	16	\$11.70	\$9.20	\$6.55
17		6	17	9.00	7.10	5.05
18		6	18	7.20	5.65	4.05
19		6	19	6.00	4.70	3.35
20		6	20	5.30	4.15	2.95

SOLID

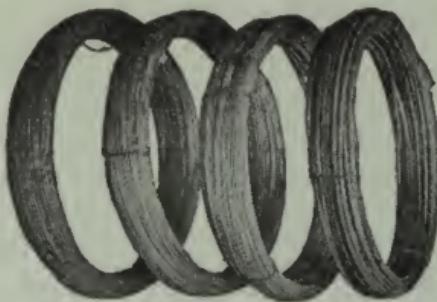
8		1	8	\$10.40	\$8.40	\$6.20
9		1	9	9.00	7.25	5.35
10		1	10	7.80	6.25	4.65

FOUR STRAND No. 20 Bbl. Lots

100-ft. lengths, per doz.....		\$4.00
75-ft. lengths, per doz.....		3.15
50-ft. lengths, per doz.....		2.25
40-ft. lengths, per doz.....		2.10

Twisted and Hollow Cable Wire Clothes Lines on Reels List Price per Reel

	1500 Ft.	2000 Ft.	2500 Ft.	3000 Ft.	4000 Ft.	5000 Ft.	6000 Ft.	8000 Ft.	10,000 Ft.
No. 1.....	\$ 8.00	\$10.60	\$12.95	\$15.10	\$20.20	\$25.20	\$30.20	\$40.40	\$50.40
No. 2.....	9.00	12.00	14.60	17.00	22.70	28.35	34.00	45.40	56.70
No. 3.....	10.70	14.25	17.30	20.25	27.00	33.75	40.50	54.00	67.50
No. 4.....	13.25	17.70	21.50	25.10	33.50	41.85	50.20	67.00	83.70
No. 16.....	16.60	22.20	27.00	31.60	42.10	52.65	63.20	84.20	105.30
No. 17.....	12.80	17.10	20.80	24.30	32.40	40.50	48.50	64.80	81.00
No. 18.....	10.30	13.70	16.70	19.50	25.90	32.45	39.00	51.50	64.90
No. 19.....	8.60	11.40	13.90	16.20	21.60	27.00	32.40	43.20	54.00
No. 20.....	7.60	10.00	12.30	14.30	19.10	23.95	28.60	38.20	47.70



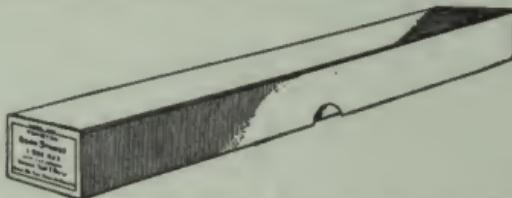
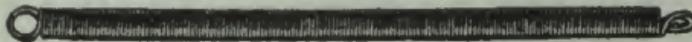
AMERICAN STEEL & WIRE COMPANY'S
Perfected
Telephone and Telegraph Wire
And Perfected Strand

A new process of tight zinc coating that is smooth, deeply laid and as naturally flexible as the wire.

Produced in the old reliable brands, "Extra BB," "BB," and "Steel."

Prices quoted upon request

**Perfection Door Springs for
 Screen Doors**



The best steel is used in the manufacture of these springs, ensuring permanent resiliency and freedom from breakage. A cheap yet perfect spring, for screen doors or other doors—simple, easily applied. Two screw-hooks—one in the door and one in the frame—are all that is required to attach.

Packed in paper boxes as illustrated, 1 dozen in a box, with japanned screw-hooks, 1 to 5-gross cartons.

Gate Springs



(Hook Ends)

Made from No. 12 wire; $1\frac{1}{8}$ inches outside diameter, 16 inches long over all, hook on each end, japanned finish.

Packed $\frac{1}{2}$ dozen in paper boxes, with staples. $\frac{1}{2}$ gross in a case. Weight per gross 152 pounds.

American Hexagon Fur Farm Netting

Especially designed to enclose Foxes, Mink, Muskrats, Skunks and all other fur bearing animals.

This netting is carefully made especially for fur farm requirements and will hang evenly.

Three wire cables of high resistance steel with tension curves at frequent intervals, form the top and bottom selvages.

In combination with American Galvanized Tubular Steel Posts and Galvanized Steel Gates, this netting forms a wall of unusual and enduring strength.

The heavy coat of spelter or galvanizing applied after the fabric has been woven gives great firmness and eliminates any crevices or pockets that might hold moisture and cause rust.

MADE IN ALL SIZES

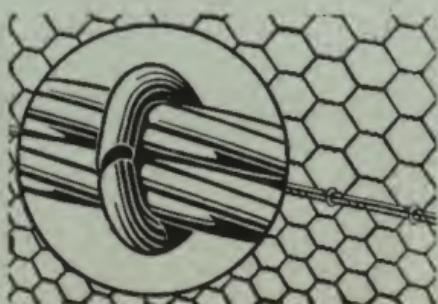
Prices quoted promptly on request.

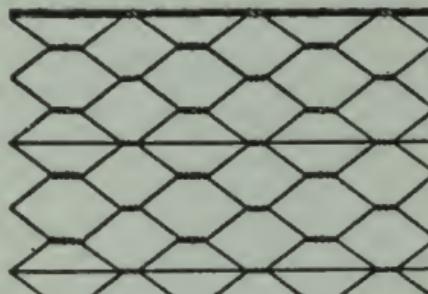
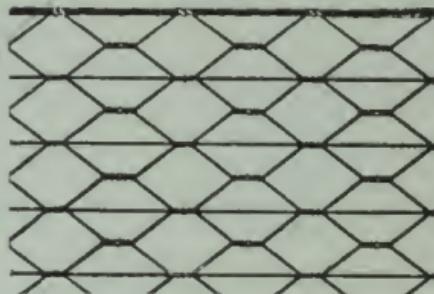
We issue a completely illustrated catalogue giving full details on Netting, Guard Fence, Steel Posts and Steel Gates for Fur Farms.

Galvanized Wire Netting Clamp

Used for joining Fox and Fur Farm Fence and Netting.

No. 12 Gauge Wire.



HEXTRALINE**The Improved Poultry Netting Offers
Many Advantages****Two Styles****HEXTRALINE No. 2**
Horizontal Spaced
TWO INCHES Apart**HEXTRALINE No. 4**
Horizontal Spaced
FOUR INCHES Apart

The line wires add to the strength of the netting.

Hextraline is always uniform of measure.

It is easy to erect, easy to handle; easy to unroll, unrolls evenly and lays out flat—no buckling; simple and easy to stretch.

Galvanized Before Weaving

HEXTRALINE No. 2	12"	18"	24"	30"	36"	48"	60"	72"
2" Mesh No. 19.....Lbs.	15	22	29	36	43	55	68	82
2" Mesh No. 20.....Lbs.	11	17	22	27	31	40	50	60

HEXTRALINE No. 4	12"	18"	24"	30"	36"	48"	60"	72"
2" Mesh No. 19.....Lbs.	13	20	26	32	38	48	58	70
2" Mesh No. 20.....Lbs.	10	15	20	23	27	35	43	52

Galvanized After Weaving

HEXTRALINE No. 2	12"	18"	24"	30"	36"	48"	60"	72"
2" Mesh No. 19.....Lbs.	17	24	30	38	45	59	75	90
2" Mesh No. 20.....Lbs.	13	18	23	28	32	42	52	62

HEXTRALINE No. 4	12"	18"	24"	30"	36"	48"	60"	72"
2" Mesh No. 19.....Lbs.	15	22	27	34	40	52	65	78
2" Mesh No. 20.....Lbs.	12	16	21	24	28	37	45	54

Prices upon application.

AMERICAN HEXAGON POULTRY NETTING

*Galvanized before Weaving—
Galvanized after Weaving*

This fence is made from specially prepared steel. Fabricated and galvanized by the latest improved process, that insures longer life and maximum weather protection. Rolls are compact to save space in storage and shipping.

Rolls out flat—and stretches even, thus saving time and trouble in erection as well as assuring a better looking fence.

Carried in stock—all widths—12 to 72 inches. Special widths up to 96 inches made to order.

HOW TO ORDER

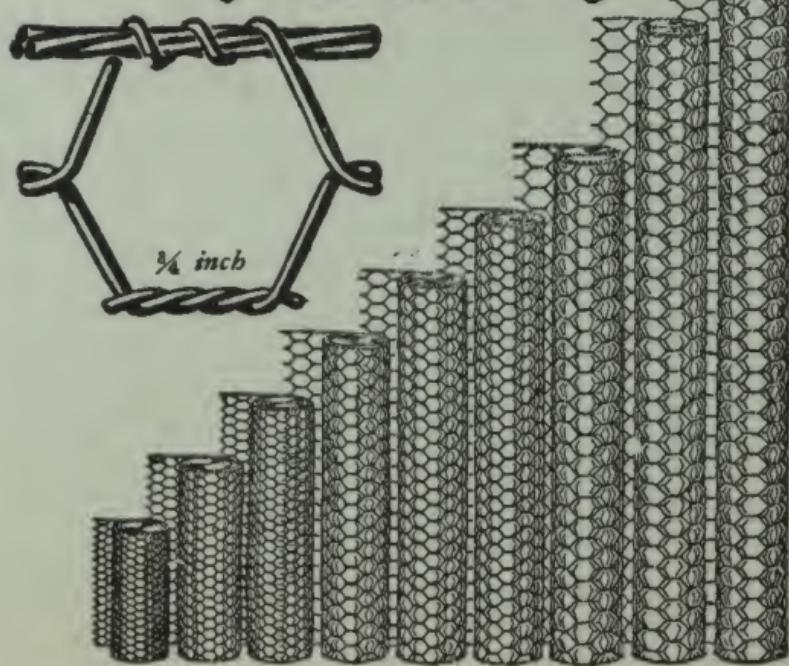
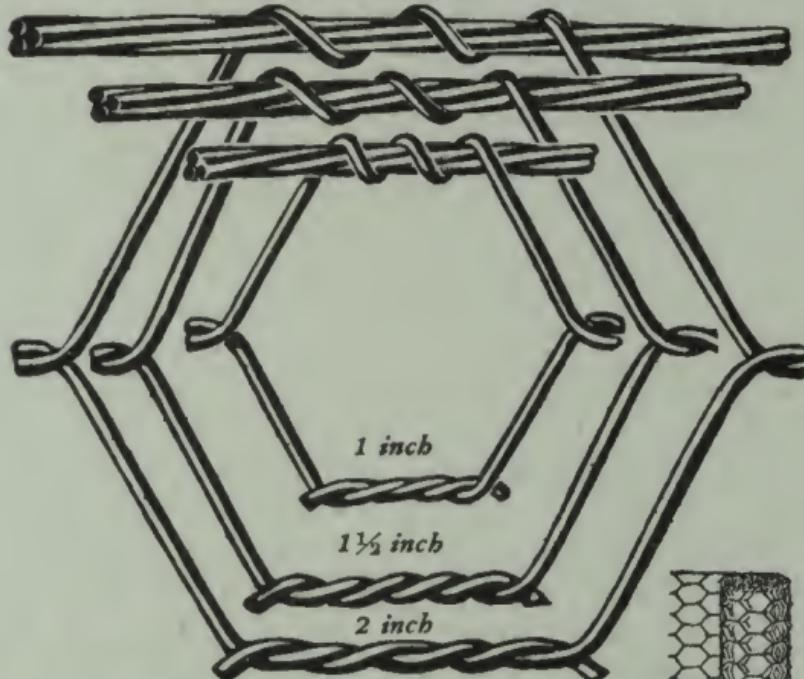
Specify size of mesh, gauge of wire, width, and whether you want Netting galvanized before weaving or galvanized after weaving.

SIZES AND MESH

INCHES WIDE		12"	18"	24"	30"	36"	42"	48"	60"	72"
Mesh	Wire									
2"	No. 15									
2"	No. 16									
2"	No. 18									
2"	No. 19									
2"	No. 20									
1 1/2"	No. 15									
1 1/2"	No. 16									
1 1/2"	No. 18									
1 1/2"	No. 19									
1 1/2"	No. 20									
1"	No. 16									
1"	No. 17									
1"	No. 18									
1"	No. 19									
1"	No. 20									
3/4"	No. 18									
3/4"	No. 19									
3/4"	No. 20									
Square Feet in One Roll		150	225	300	375	450	525	600	750	900

RELATIVE SIZES OF AMERICAN POULTRY NETTING MESH

Regular Sizes Manufactured



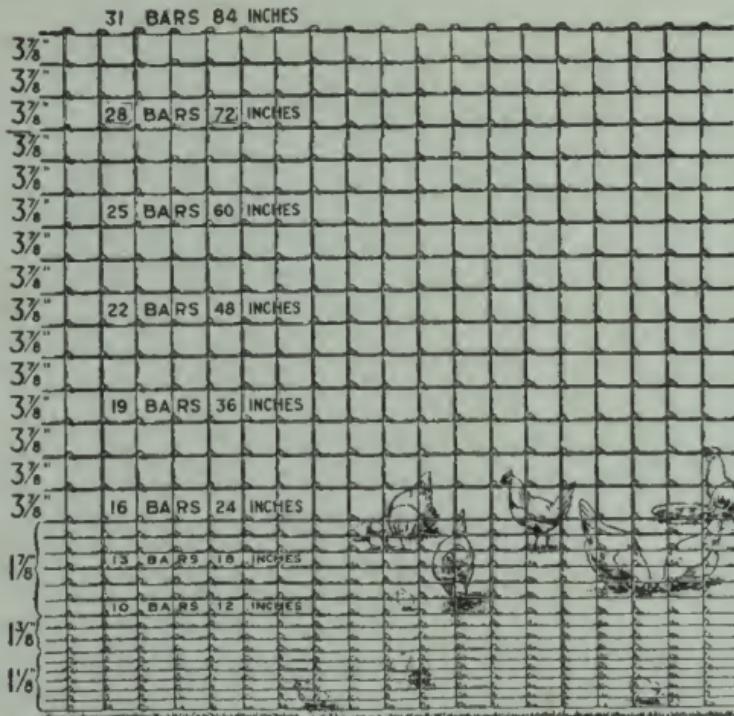
*American Hexagon Poultry Netting Galvanized Before Weaving
and Galvanized After Weaving*

Regular Sizes Manufactured—12"-18"-24"-30"-36"-42"-48"-60"-72"

BANNER POULTRY FENCE

Specification No. 17

{Formerly Banner Standard}



This fence is one of the crowning achievements of the American Steel and Wire Company's years of metallurgical and fence manufacturing experience.

It offers the maximum in service, long life and appearance, yet the cost is no more than ordinary poultry fence.

The wire has the tensile strength and elasticity that our engineers have proven are necessary to insure durability. The galvanizing is heavy and uniform, giving maximum defense against rust.

A wide range of heights, coupled with a particularly close mesh graduated from the bottom—makes it an ideal fence where protection against smaller destructive animals is important.

BANNER POULTRY FENCE**Specification No. 17**

{Formerly Banner Standard}

**LIST PRICES OF BANNER
POULTRY FENCE**

Design No.	No. of Bars	Height in Inches	Approximate Weight in Lbs per Roll
1012—4	10	12	20.0
1318—4	13	18	25.9
1624—4	16	24	32.3
1936—4	19	36	39.7
2248—4	22	48	47.8
2560—4	25	60	55.8
2872—4	28	72	62.1
3184—4	31	84	71.5

SPECIFICATIONS No. 17

Top and bottom horizontal wires or bars, No. 15.

Intermediate horizontal wires or bars, No. 17.

Upright wires or stays, No. 17.

Upright wires or stays, spaced 4 inches apart.

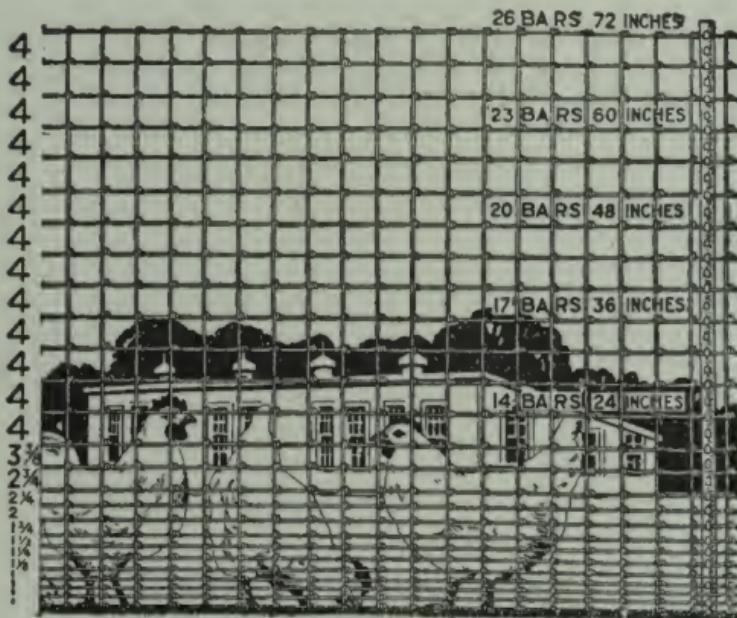
Spacing of horizontals or bars graduated, first six at bottom of fence $1\frac{1}{8}$ inches, next three $1\frac{3}{8}$ inches, next six $1\frac{7}{8}$ inches, remaining bars $3\frac{7}{8}$ inches.

Rolls of 150 feet each.

BANNER POULTRY FENCE

Specification No. 17 Close Mesh

{Formerly Banner Eclipse}



A FENCE VALUE—TRUE TO ITS NAME

Here is a graduated spacing Poultry fence that can be stretched and erected like a field fence without special tools. No top or bottom boards required and when completed will stand for years—as straight—as true—as firm as the day it was erected.

Every wire is made in our own mills and is of the same high quality as used in our other fences. Every wire is thoroughly galvanized against rust. Small spacing at the bottom insures safe protection for poultry of all sizes. Guaranteed to be an efficient durable poultry fence.

BANNER POULTRY FENCE

Specification No. 17 Close Mesh

{Formerly Banner Eclipse}

**LIST PRICES OF BANNER
POULTRY FENCE****SPEC. No. 17 CM**

Design No.	No. of Bars	Height in Inches	Approximate Weight in Lbs. per Roll
1424—4	14	24	29.5
1736—4	17	36	37.7
2048—4	20	48	45.0
2360—4	23	60	53.2
2672—4	26	72	61.8

SPECIFICATIONS No. 17 CM

Top and bottom horizontal wires or bars No. 15.

Intermediate horizontal wires or bars, No. 17.

Upright wires or stays, No. 17.

Upright wires or stays, spaced 4 inches apart.

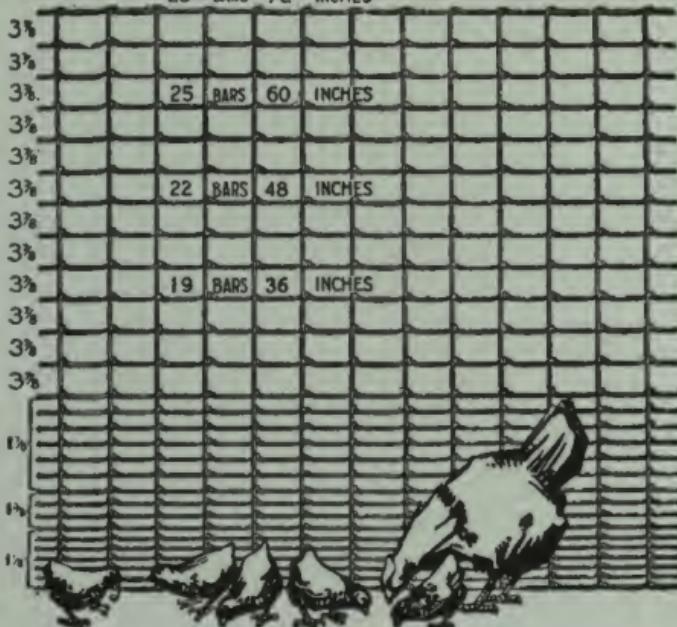
Spacing from bottom to top in inches; 1, 1, 1, 1, $1\frac{1}{8}$, $1\frac{1}{4}$, $1\frac{1}{2}$, $1\frac{3}{4}$, 2, $2\frac{1}{4}$, $2\frac{3}{4}$, $3\frac{3}{8}$, balance 4 inches.

Rolls of 150 feet each.

BANNER POULTRY FENCE

Specification No. 18
{Formerly *Banner Junior*}

28 BARS 72 INCHES



This fence is offered to meet the increasing demand for a fence with the same high quality of steel as our other fences—but lighter in weight—and lower in price.

The zinc coating of this fence is uniform, insuring protection—a perfect no-peel protection. The spacing is close enough to insure protection for the smallest chicken.

Though this fence is light in weight—it is so designed that it may be erected like regular field fence—with-out top or bottom rail. The non-projecting, smooth knot is a light, safe knot.

SPECIFICATION No. 18

Design Number	No. of Bars	Height in Inches	Approximate Weight in Lbs. per Roll
1936-6	19	36	26.4
2248-6	22	48	31.4
2560-6	25	60	36.2
2872-6	28	72	41.1

Top and bottom horizontal wires or bars. No. 16.

Top and bottom horizontal wires or bars, No. 18
Intermediate horizontal wires or bars, No. 18

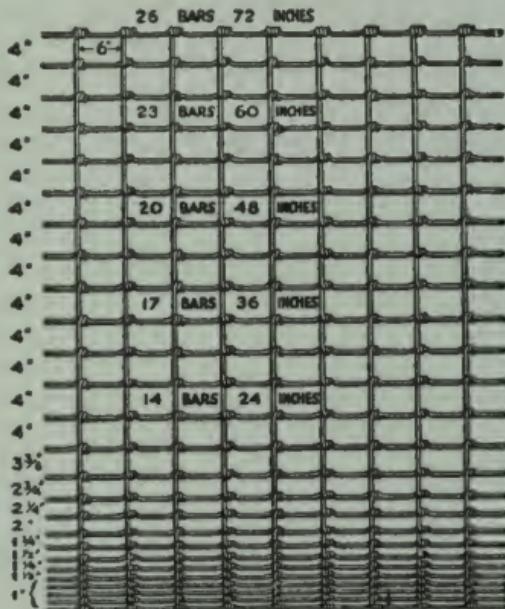
Intermediate horizontal wires or bars, No. 18.
Upright wires or stays, No. 18. Upright wires or stays, spaced 6 inches apart.

Spacing of horizontal or bars graduated, first six at bottom of fence, $1\frac{1}{8}$ inches, next three $1\frac{3}{8}$ inches, next six $1\frac{1}{4}$ inches, remaining bars $3\frac{1}{8}$ inches.

Rolls of 150 feet each.

BANNER POULTRY FENCE

Specification No. 18 Close Mesh
{Formerly Banner J. E.}



The very small spacing at the bottom insures safe protection for poultry of all sizes. There are no top or bottom boards required. Easy to put up. Can be stretched like a field fence. Every wire is thoroughly galvanized—insulated against rust.

SPECIFICATION No. 18 CM

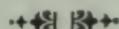
Design No.	No. of Bars	Height in Inches	Approximate Weight in Lbs. per Roll
1736-6	17	36	25.0
2048-6	20	48	29.7
2360-6	23	60	34.4
2672-6	26	72	39.0

Top and bottom horizontal wires or bars, No. 16.
 Intermediate horizontal wires or bars, No. 18.
 Upright wires or stays, No. 18.
 Upright wires or stays, spaced 6 inches apart.
 Spacing from bottom to top in inches: 1, 1, 1, 1, 1 1/8, 1 1/4, 1 1/2, 1 3/4, 2, 2 1/4, 2 3/4, 3 3/8, balance 4 inches.

Rolls of 150 feet each.

Made at Fairfield, Ala., Only

MANUAL *of* CARPENTRY SECTION



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Manual of Carpentry

Wire Nails—Kinds and Quantities Required

Sizes and Kinds of Material		Trade Names		Pounds per 1000 feet B. M. on center as follows:			
				12"	16"	20"	36"
2 $\frac{1}{2}$	10 $\frac{1}{4}$	106	2	1 x 4	8d common.....	60	48
2 $\frac{1}{2}$	10 $\frac{1}{4}$	106	2	1 x 6	8d common.....	40	32
2 $\frac{1}{2}$	10 $\frac{1}{4}$	106	2	1 x 8	8d common.....	31	27
2 $\frac{1}{2}$	10 $\frac{1}{4}$	106	2	1 x 10	8d common.....	25	20
2 $\frac{1}{2}$	10 $\frac{1}{4}$	106	2	1 x 12	8d common.....	31	24
2 $\frac{1}{2}$	10 $\frac{1}{4}$	106	3	2 x 4	20d common.....	105	80
4	6	31	2	2 x 6	20d common.....	70	54
4	6	31	2	2 x 8	20d common.....	53	40
4	6	31	3	2 x 10	20d common.....	60	50
4	6	31	3	2 x 12	20d common.....	52	41
4	6	31	3	3 x 4	20d common.....	197	150
6	2	11	2	3 x 6	60d common.....	131	97
6	2	11	2	3 x 8	60d common.....	100	76
6	2	11	3	3 x 10	60d common.....	178	137
6	2	11	3	3 x 12	60d common.....	145	115
2 $\frac{1}{2}$	12 $\frac{1}{2}$	189	2	Base, per 100 ft. lin.	8d finish.....	1	1
2 $\frac{1}{2}$	10 $\frac{1}{4}$	106	2	Byrket lath.....	8d common.....	48	48

I. Used square edge, as plate-forms, floors, sheathing, or shiplap.

II. When used D. & M., blind nailed, only $\frac{1}{2}$ quantity required.

III. When used D. & M., blind nailed, only $\frac{1}{2}$ quantity required.

IV. Used square edge, as plate-forms, floors, sheathing, or shiplap.

Wire Nails—Kind and Quantities Required—Cont.

Length, in inches,	A. M. Steel Wire Co., Steel Wire Gauge	Nails per No. to lbs. Approx.	Sizes and Kinds of Material	Trade Names	Pounds per 1000 feet B. M. on center as follows:			
					12"	16"	20"	36"
2 $\frac{1}{2}$	12 $\frac{1}{2}$	189	1	Ceiling, $\frac{3}{4}$ x 4.	8d finish.	18	14	...
2	13	309	1	Ceiling, $\frac{1}{2}$ and $\frac{5}{8}$.	6d finish.	11	8	...
2 $\frac{1}{2}$	12 $\frac{1}{2}$	189	2	Finish, $\frac{7}{8}$.	8d finish.	25	12	...
3	11 $\frac{1}{2}$	121	2	Finish, $1\frac{1}{8}$.	10d finish.	12	10	...
2 $\frac{1}{2}$	10	99	1	Flooring, 1 x 3.	8d floor brads.	42	32	...
2 $\frac{1}{2}$	10	99	1	Flooring, 1 x 4.	8d floor brads.	32	26	...
2 $\frac{1}{2}$	10	99	1	Flooring, 1 x 6.	8d floor brads.	22	18	...
4	6	31		Framing, 2x4 to 2x16	20d common.	20	16	14
3 $\frac{1}{2}$	8	49		requires 3 or more	16d common.	10	10	8
3	9	69		sizes and vary greatly	10d common.	8	6	5
6	2	11		Framing, 3x4 to 3x14	60d common.	30	25	20
2 $\frac{1}{2}$	11 $\frac{1}{2}$	145	2	Siding, drop, 1 x 4.	8d casing.	45	35	...
2 $\frac{1}{2}$	11 $\frac{1}{2}$	145	2	Siding, drop, 1 x 6.	8d casing.	30	25	...
2 $\frac{1}{2}$	11 $\frac{1}{2}$	145	2	Siding, drop, 1 x 8.	8d casing.	23	18	...
2	13	309	1	Siding, bevel, $\frac{1}{2}$ x 4.	6d finish.	23	18	...
2	13	309	1	Siding, bevel, $\frac{1}{2}$ x 6.	6d finish.	15	13	...
2	13	309	1	Siding, bevel, $\frac{1}{2}$ x 8.	6d finish.	12	10	...
				Casing, per opening.	6d and 8d casing.	About $\frac{1}{2}$ pound per side.		

Wire Nails—Kinds and Quantities Required—Cont.

1 $\frac{1}{4}$	14	568	12"	Flooring, $\frac{3}{8} \times 2$	3d brads	About 10 pounds per 1000 square feet.
1 $\frac{1}{8}$	15	778	o.c.	16" Lath, 48"	3d fine	6 pounds per 1000 pieces.
$\frac{7}{8}$	12	469	o.c.	Ready roofing	Barbed roofing	$\frac{3}{4}$ of a pound to the square.
$\frac{7}{8}$	12	469	o.c.	1" Ready roofing	Barbed roofing	1 $\frac{1}{2}$ pounds to the square.
$\frac{7}{8}$	12	180	o.c.	2" Ready roofing ($\frac{5}{8}$ heads)	American felt roofing	1 $\frac{1}{2}$ pounds to the square.
$\frac{7}{8}$	12	180	o.c.	1" Ready roofing ($\frac{5}{8}$ heads)	American felt roofing	3 pounds to the square.
1 $\frac{1}{4}$	13	429	o.c.	Shingles†	3d shingle	4 $\frac{1}{2}$ pounds; about 2 nails to each $\frac{1}{4}$ inches.
1 $\frac{1}{2}$	12	274	o.c.	Shingles	4d shingle	7 $\frac{1}{2}$ pounds; about 2 nails to each $\frac{1}{4}$ inches.
$\frac{7}{8}$	12	180	4	Shingles	American felt roofing	12 lbs., 4 nails to shingle.
$\frac{7}{8}$	12	469	4	Shingles	Barbed roofing	4 $\frac{1}{2}$ lbs., 4 nails to shingle.
1	16	1150	2"	Wall board, around entire edge	2d Barbed Berry, flat head	5 pounds, per 1,000 square feet.
1	15 $\frac{1}{2}$	1010	o.c.	3" Wall board, intermediate nailings	2d casing or floor brad	2 $\frac{1}{2}$ lbs., per 1,000 square feet.

†Wood shingles vary in width; asphalt are usually 8 inches wide. Regardless of width 1000 shingles are the equivalent of 1000 pieces 4 inches wide.

The "Penny" System

The "penny" system of designating nails originated in England. Two explanations are offered as to how this curious designation came about. One is that the six penny, four penny, tenpenny, etc., nails derived their names from the fact that one hundred cost sixpence, fourpence, etc. The other explanation, which is more probable, is that one thousand tenpenny nails, for instance, weighed ten pounds. The ancient as well as modern abbreviation for penny is "d," being first letter of the Roman coin denarius; the same abbreviation in early history was used for the English pound in weight. At any rate, the penny has persisted as a term in the nail industry.

Strength of Joists

The table herewith has been carefully calculated by this formula:

$$\text{Safe load} = \frac{2 \times \text{thickness} \times \text{square of width} \times A}{\text{Span in feet}}$$

in which the value of A is 1-18 of the fiber strain or modulus of rupture for safe loads. It is the formula used in modern construction by P. E. Kidder and other noted civil engineers.

Its Use

What size joists are required in a hay bay 20 feet wide, 40 feet long and 12 feet high, the joists being supported at the ends only? The cubic contents = $20 \times 40 \times 12$ or 9,600 cubic feet. At 512 cubic feet to the ton this bay will hold $18\frac{3}{4}$ tons or 37,500 pounds. Supposing the joists to be set 24" on centers there would be 21 joists and each would have to carry 1-21 of 37,500 pounds or 1785 5-7 pounds. Referring to the table the safe load for 1 x 1020 is 1000 pounds. This multiplied by $1\frac{3}{4}$ " the exact thickness of the joists = 1750 pounds, whereas provision must be made for 1785 pounds; therefore 3 x 10's must be used or the 2 x 10's must be set closer than 2 feet on centers.

Economy

It also indicates the economical sizes to give best results. For example, the safe load for a 4 x 4 16 is 800 pounds (4 x 200) while the safe load for a 2 x 6 is 900 pounds (2 x 450), showing that while the 2 x 6 contains much less material, yet when used on edge it is $\frac{1}{8}$ stronger than the 4 x 4.

Safe Quiescent Loads Uniformly Distributed for Long Leaf Yellow Pine

Set on edge and supported at both ends. Multiply weight given by exact thickness of joists used.

Safe Load in Pounds	Size										Safe Load in Pounds	Size			
	1x6		1x7		1x8		1x9		1x10			1x12			
	SAFE	LOAD		SAFE	LOAD	SAFE									
1x4	14	14	15	15	16	16	17	17	18	18	19	19	20	20	
533	1200	1633	2133	2700	3333	4800	6533	7500	8533	8533	9000	5633	6400	6400	
400	900	1225	1600	2025	2500	3600	4900	5633	6400	6400	7200	4500	5120	5120	
320	720	980	1280	1620	2000	2880	3920	4500	5120	5120	816	1066	1350	1350	
267	600	816	1066	1350	1666	2400	3266	3750	4266	4266	100	225	306	306	
228	514	700	914	1157	14	1428	2056	2800	3214	3656	213	480	653	653	
200	450	612	800	1012	15	1333	1920	2613	3000	3412	188	423	576	576	
178	400	544	711	900	18	1111	1600	2177	2500	2844	160	360	490	490	
145	327	445	582	736	20	1000	1440	1960	2250	2560	139	313	426	556	
133	300	408	533	675	22	909	1309	1782	2045	2327	128	288	392	512	
123	277	377	492	623	26	769	1107	1507	1730	1969	119	267	363	474	
114	257	350	457	578	27	740	1066	1451	1666	1896	107	240	326	426	
100	225	306	400	506	28	714	1028	1400	1607	1828	320	405	476	540	
					30	667	960	1306	1500	1706					
					32	800	1152	1568	1800	2048					
					34	769	1107	1507	1730	1969					
					36	740	1066	1451	1666	1896					
					38	714	1028	1400	1607	1828					
					40	667	960	1306	1500	1706					
					40	800	1152	1568	1800	2048					
					40	769	1107	1507	1730	1969					
					40	740	1066	1451	1666	1896					
					40	714	1028	1400	1607	1828					
					40	667	960	1306	1500	1706					
					40	800	1152	1568	1800	2048					
					40	769	1107	1507	1730	1969					
					40	740	1066	1451	1666	1896					
					40	714	1028	1400	1607	1828					
					40	667	960	1306	1500	1706					
					40	800	1152	1568	1800	2048					
					40	769	1107	1507	1730	1969					
					40	740	1066	1451	1666	1896					
					40	714	1028	1400	1607	1828					
					40	667	960	1306	1500	1706					
					40	800	1152	1568	1800	2048					
					40	769	1107	1507	1730	1969					
					40	740	1066	1451	1666	1896					
					40	714	1028	1400	1607	1828					
					40	667	960	1306	1500	1706					
					40	800	1152	1568	1800	2048					
					40	769	1107	1507	1730	1969					
					40	740	1066	1451	1666	1896					
					40	714	1028	1400	1607	1828					
					40	667	960	1306	1500	1706					
					40	800	1152	1568	1800	2048					
					40	769	1107	1507	1730	1969					
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					40	769	1107	1507	1730	1969					
					40	740	1066	1451	1666	1896					
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					40	800	1152	1568	1800	2048					
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					40	800	1152	1568	1800	2048					
					40	769	1107	1507	1730	1969					
					40	740	1066	1451	1666	1896					
					40	714	1028	1400	1607	1828					
					40	667	960	1306	1500	1706					
					40	800	1152	1568	1800	2048					
					40	769	1107								

 The safe loads estimated are for *clear* pieces and *full* sizes. On account of scant sizes and more or less defective stock, an allowance of 20 per cent must be made. For example, the safe load for a 1 x 8-8 is 1600 pounds, and for a 2 x 8-8 two times this or 3200 pounds. But for reasons stated 20 per cent must be deducted, reducing the safe load of a 2 x 8-8 to 2560 pounds.

The safe load for fir is 90 per cent of above long leaf yellow pine, for white oak 75 per cent; for short leaf yellow pine and Norway pine 70 per cent; hemlock 65 per cent; white pine 60 per cent; spruce 70 per cent; cast iron 222 per cent; wrought iron 666 per cent, and medium steel 888 per cent.

- I. When the load is concentrated midway between the supports, take only half of above load.
- II. For beams fixed at one end the other unsupported and the load uniformly distributed takes one-fourth of above loads, if the load is concentrated on the unsupported end, then take only one-eighth of above.
- III. In the above, the safe load includes the weight of the joists, which must be deducted to get the net or superimposed safe load.
- IV. Joists longer than 12 times their width used without intermediate supports are apt to crack plastered ceilings.

Supported at the Ends Only

8	LENGTH OF POST, FEET			SIZE OF POST			LENGTH OF POST, FEET			22
	8	10	12	14	16	18	20	22		
	POUNDS			INCHES			POUNDS			
12160	11200	10240	9280	4x4	8320	7360	6400	5440		
18200	16800	15360	12920	4x6	12480	11040	9600	8160		
19500	18760	17550	16500	5½ diam. round	15460	14416	13395	12350		
30200	28800	27400	25900	6x6	24500	23040	21600	20160		
40300	38400	36500	34600	6x8	32600	30720	28800	26880		
50400	48000	45600	43200	6x10	40800	38400	36000	33600		
38540	37130	35710	34300	7½ diam. round	32890	31450	30035	28622		
64000	54400	52500	50600	8x8	48600	46700	44800	42880		
80000	68000	65600	63200	8x10	60800	58400	56000	53600		
96000	81600	78700	76800	8x12	73000	70100	67200	64320		
70900	61970	60190	58350	9½ diam. round	56580	54800	53018	51175		
100000	100000	85600	83200	10x10	80800	78400	76000	73600		
120000	120000	102700	99800	10x12	97000	94100	91200	88320		
140000	140000	119800	116500	10x14	113100	109800	106400	103040		
103900	103900	90912	88730	11½ diam. round	86550	84160	82290	79972		
144000	144000	144000	123800	12x12	121000	118100	115200	109440		
168000	168000	168000	144500	12x14	141100	137800	134400	127680		
192000	192000	192000	165100	12x16	161300	157400	153600	145920		
196000	196000	196000	196000	14x14	169100	165800	162400	155800		
256000	256000	256000	256000	16x16	225300	221400	217600	209900		
324000	324000	324000	324000	18x18	289400	285100	280800	272160		
400000	400000	400000	400000	20x20	400000	356800	352000	342400		

On the previous page are results of full size columns tested at the United States arsenal at Watertown, Mass., by James H. Stanwod, who is instructor in civil engineering at Massachusetts Institute of Technology, as quoted by Frank E. Kidder in his "Architect's Pocket-Book." The table is based on the following formula:

Safe load per *square inch* of cross section =

$$1000 - (10 \times \frac{\text{length in inches}}{\text{breadth in inches}})$$

Other woods gave the following, to-wit:

Short leaf yellow pine:

Safe load per *square inch* of cross section =

$$850 - (8.5 \times \frac{\text{length in inches}}{\text{breadth in inches}})$$

Oak and Norway pine:

Safe load per *square inch* of cross section =

$$750 - (7.5 \times \frac{\text{length in inches}}{\text{breadth in inches}})$$

White pine and spruce:

Safe load per *square inch* of cross section =

$$625 - (6 \times \frac{\text{length in inches}}{\text{breadth in inches}})$$

For the breadth use shortest side, *i.e.*, in a 4 x 6 the breadth is 4 inches. The results from above equations multiplied by area of cross section give the safe load in pounds.

How to Figure Lumber Board Measure

Lumber is usually reckoned by Board Measures, the unit being a square foot one inch thick.

Lumber less than one inch thick is usually figured as of one inch.

The ordinary way of finding the contents of squared lumber is to multiply together the length in feet, the width and thickness in inches and divide the product by 12.

Figuring lumber by the above rule is a slow process, and the following system is adopted by experts whose business makes rapid calculation essential to their success.

Multiply together the thickness and width in inches, divide the product by 12 and multiply result by the length; the answer is Board Measure contents.

Examples

A few examples will show the system for finding the contents of standard sizes in a few seconds and many of them without a moment's hesitation.

Example: Find the Board Measure contents of the following sizes:

Pcs.	Size	Length	B. M.
1	2x 8 inches	30 feet	40
1	4x10 inches	18 feet	60
1	10x10 inches	36 feet	300
1	20x20 inches	60 feet	2000

Operation

2x8 equals 16 divided by 12 equals $16/12$ or $1\frac{1}{3}$. When this is multiplied by the length the answer is 40 feet; in other words, add one-third to the length and you have the Board Measure contents.

Operation

4x10 equals 40 divided by 12 equals $40/12$ or $3\frac{1}{3}$ or $10/3$. In this instance a cipher is added to the length and when this is divided by three the result is 60 feet Board Measure contents.

10x10 equals 100; this divided by 12 equals $100/12$, or $8\frac{1}{3}$, or $100/12$. It is easier to multiply by 100 and divide by 12 than to multiply by $8\frac{1}{3}$, therefore add two ciphers to the length and divide by 12; the result is 300 feet Board Measure contents.

20x20 equals 400, divided by 12 equals $400/12$, or $33\frac{1}{3}$, or $100/3$. All that is necessary is to add two ciphers to the length and divide by 3; the result is 2000 feet, Board Measure contents.

After a short reflection on the above method, it will be apparent to everyone that when this system is used I have made good my statement that the contents of any ordinary stick of lumber can be figured inside of a few seconds.

The following standard sizes and multiples for same will serve as a basis for practice, and when memorized will benefit those who wish to become rapid in figuring lumber, and at the same time may prove a stepping stone to a better position and successful career.

Standard Sizes and Multiples

- 1 x 3 Divide lineal feet by 4.
- 1 x 4 Divide lineal feet by 3.
- 1 x 6 Divide lineal feet by 2.
- 1 x 8 Multiply lineal feet by 2 and divide by 3.
- 1 x10 Multiply lineal feet by 10 and divide by 12.
- 1 x12 Lineal feet and Board Measure the same.
- 2 x 3 Divide lineal feet by 2.
- 2 x 4 Multiply lineal feet by 2 and divide by 3.
- 2 x 8 Add to lineal feet $\frac{1}{3}$ of amount.
- 2 x10 Multiply lineal feet by 10 and divide by 6.
- 2 x12 Multiply lineal feet by 2.
- 3 x 3 Multiply lineal feet by 3 and divide by 4.
- 3 x 4 Lineal feet and Board Measure the same.
- 3 x 6 Add to lineal feet $\frac{1}{2}$ the amount.
- 3 x 8 Multiply lineal feet by 2.
- 3 x10 Multiply lineal feet by 10 and divide by 4.
- 3 x12 Multiply lineal feet by 3.
- 4 x 4 Add to lineal feet $\frac{1}{3}$ of amount
- 4 x 6 Multiply lineal feet by 2.
- 4 x 8 Multiply lineal feet by 3 and subtract $\frac{1}{3}$ lineal feet from amount.
- 4 x10 Multiply lineal feet by 10 and divide by 3.
- 4 x12 Multiply lineal feet by 4.
- 8 x 8 Multiply lineal feet by $5\frac{1}{3}$.
- 10x10 Multiply lineal feet by 100 and divide by 12.
- 12x12 Multiply lineal feet by 12.
- 14x14 Multiply lineal feet by $16\frac{1}{3}$.
- 16x16 Multiply lineal feet by $21\frac{1}{3}$.
- 18x18 Multiply lineal feet by 27.
- 20x20 Multiply lineal feet by 100 and divide by 3.
- 22x22 Multiply lineal feet by $40\frac{1}{3}$.
- 24x24 Multiply lineal feet by 48.

Another Method

A handy method for computing Board Measure contents preferred by a number of lumbermen is as follows: For all 12 ft. lengths multiply width by thickness.

For all 14 ft. lengths multiply width by thickness and add 1/6.

For all 16 ft. lengths multiply width by thickness and add 1/3.

For all 18 ft. lengths multiply width by thickness and add 1/2.

For all 20 ft. lengths multiply width by thickness and add 2/3.

For all 22 ft. lengths multiply width by thickness and add 5/6.

For all 24 ft. lengths multiply width by thickness and double.

Some objection may be taken to the use of 2/3 and 5/6, but often by transposition you can substitute 1/6, 1/3 or 1/2 as in the following:

Examples:

10 pcs. 1x18—22 changed to 10 pcs. 1x22—18.
16 pcs. 1x22—20 changed to 20 pcs. 1x22—16.

In the first example instead of multiplying 10x18 and adding 5/6 to the result, multiply 10x22 and add one-half to the result, which will give 330 ft. Board Measure. In the second item instead of multiplying 16x22 and adding 2/3 multiply 20x22 and add 1/3 which gives 586 $\frac{2}{3}$ ft. Board Measure.

The above system is very handy when figuring lumber from 12 to 24 feet in length and also where odd widths and thicknesses frequently occur.

To Convert Board Measure to Lineal Feet, simply reverse the multiple used to bring lineal feet to Board Measure; in other words, multiply Board feet by 12 and divide by thickness and width.

Example: How many lineal feet are there in 1000 feet Board Measure of 2x8?

Process:

$$\begin{array}{r} 1000 \\ 12 \\ \hline 2) 12000 \\ \hline 8) 6000 \\ \hline \end{array}$$

750 lineal feet. Answer.

Car orders frequently call for a specified amount of sizes containing special lengths. Before proceeding to load it is necessary to find the number of pieces required.

Find the number of pieces in the following order:

1000 ft. B. M. 2x4-14.

1000 ft. B. M. 2x4-16.

1000 ft. B. M. 2x4-20.

Bring the Board Measure to lineal feet as shown in previous example, then divide the length into lineal feet. The result will be the number of pieces.

Process:

$$\begin{array}{r}
 1000 \\
 12 \\
 \hline
 2) 12000 \\
 \hline
 4) 6000 \\
 \hline
 1500 \text{ lineal feet.}
 \end{array}$$

The lineal feet given is now divided by the respective lengths and the following answer is obtained:

107 Pcs. 2x4-14 containing 998 ft. 8 in. B. M.
 94 Pcs. 2x4-16 containing 1002 ft. 8 in. B. M.
 75 Pcs. 2x4-20 containing 1000 ft. B. M.

276 3001 ft. 4 in. B. M.

FIGURING
SQUARE
TIMBERS

This method of computing the Board Measure contents of square or rectangular timbers that exceed 12 inches one or both ways, is known to but very few, if any, lumbermen. It is a rapid way of figuring the majority of sizes, and on account of its simplicity the system is easily committed to memory.

FRAME				BRICK, Shingle Roofs			
Stores	Average Duration	Dwellings	Average Duration	Stores	Average Duration	Dwellings	Average Duration
Years	Depreciation per Year	Years	Depreciation per Year	Years	Depreciation per Year	Years	Depreciation per Year
30	3 1/3	40	2 1/2	Base.....	30	3 1/3	30
30	3 1/3	40	2 1/2	Brick.....	66	1 1/2	66
40	2 1/2	50	2	Cornice.....	40	2 1/2	40
25	4	30	3 1/3	Dimension lumber.....	75	1 1/3	66
13	8	20	5	Doors and trim.....	30	3 1/3	30
13	8	20	5	Floors.....	20	5	13
30	3 1/3	30	3 1/3	Hardware.....	13	8	20
16	6	16	6	Inside blinds.....	30	3 1/3	30
5	20	7	14	Outside blinds.....	16	6	16
16	6	20	5	Paint, inside.....	7	14	6
20	5	20	5	Paint, outside.....	7	14	6
40	2 1/2	50	2	Plaster.....	30	3 1/3	30
30	3 1/3	30	3 1/3	Porches.....	20	5	5
25	4	25	4	Shingles of wood.....	16	6	16
20	5	20	5	Sheathing.....	50	2	50
25	4	30	3 1/3	Siding.....	..	..	..
20	5	30	3 1/3	Sills and first floor joists.....	40	2 1/2	30
25	4	30	3 1/3	Stairs.....	30	3 1/3	20
				Windows.....	30	3 1/3	30

The facts in the above table were compiled by Mr. A. W. Spaulding for the Fire Underwriters' Association of the Northwest. Mr. Spaulding's investigation covered twenty-seven cities and towns in eleven western states, and it is believed that the table is as accurate as it is possible to produce. This Actuary table will enable lumbermen to pass upon the value of the constituent parts of any kind of building.

How to Make Blue Prints

The paper, which may be bought ready for use, should be stored in a dry place and be entirely shielded from the sunlight until used.

1. Provide a smooth board as large as the tracing to be copied.

2. Lay on this two or three thicknesses of common blanket to give a slightly yielding backing for the paper.

3. Lay on the blanket the prepared paper with the sensitive side up.

4. Lay on the paper the tracing, smoothing it out as perfectly as possible to insure perfect contact with the paper.

5. Lay on the tracing a piece of clear plate glass, which should be heavy enough to press the tracing close down upon the paper.

6. Expose the whole to a clear sunlight from six to ten minutes. If a clear sky can be had, the exposure must be continued from thirty to forty-five minutes, and under a cloudy sky sixty to ninety minutes.

7. Remove the prepared paper and drench it in clear water, and hang it up by one corner to dry.

The paper is of a full yellow or bronze color. After the exposure to the light the surface becomes a darker bronze and the lines of the tracing appear still darker on the surface. Upon washing the paper the characteristic blue tints appear with the white lines of the tracing in vivid contrast.

Rafters and Gables

Width of Building	FOURTH PITCH		THIRD PITCH		SECOND PITCH		HALF PITCH	
	Length of Rafter		From Plate to Comb		Length of Rafter		From Plate to Comb	
	ft.	in.	ft.	in.	ft.	in.	ft.	in.
6	3	4	1	6	9	3	7	2
7	3	11	1	9	12	4	0	2
8	4	6	2	0	16	4	10	2
9	5	0	2	3	20	5	5	3
10	5	7	2	3	25	6	0	3
12	6	8	3	0	36	7	2	4
14	7	10	3	6	49	8	5	4
16	9	0	4	0	64	9	7	5
18	10	1	4	6	81	10	10	6
20	11	2	5	0	100	12	0	6
22	12	4	5	6	121	13	2	7
24	13	5	6	0	144	14	5	8
26	14	6	6	6	169	15	7	8
28	15	8	7	0	196	16	10	9
30	16	9	7	6	225	18	0	10
32	17	11	8	0	256	19	2	10

To the lengths of rafters above given must be added the desired projection for cornice. Add also to make stock lengths.

For length of rafter on one-way roofs, take the rafter given for double the width thus: The rafter for a one-way roof on a building 10 feet wide, 4th pitch is that given for 20 feet wide or 11 feet, 2 inches.

In area of gable above given no allowance is made for waste or laps.

To verify above or obtain length of rafters for buildings of other widths than above given multiply the width of building by .559 for 4th pitch; by .6 for 3d pitch and by .71 for half pitch.

Capacity, in bushels, of cribs or bins, each Eight feet high in the clear

3	WIDTH		10		12		14		16		18		20		22		24		26		30	
			BUSHELS				BUSHELS						Length				BUSHELS					
77	206	257	309	360	411	450	490	514	511	514	540	540	540	540	540	540	556	566	566	579	707	771
96	257	321	386	463	514	617	694	617	617	617	630	720	810	810	810	810	849	890	836	849	1003	964
116	309	386	450	540	617	720	810	720	720	720	720	823	926	1041	1041	1041	990	1170	1170	1131	1273	1157
135	360	450	514	514	617	720	810	694	694	694	694	900	1029	1157	1157	1157	1029	1157	1157	1041	1273	1350
154	411	514	579	643	771	900	900	771	771	771	771	900	1029	1157	1157	1157	1029	1157	1157	1157	1414	1543
174	463	643	643	643	771	926	1080	926	926	926	926	1080	1234	1388	1388	1388	1234	1388	1388	1388	1414	1671
193	514	617	771	771	771	890	1080	771	771	771	771	890	1260	1440	1440	1440	1260	1440	1440	1440	1620	1980
231	617	720	823	1029	1234	1440	1440	1157	1388	1620	1620	1620	1620	1620	1620	1620	1620	1851	1851	1851	1851	2083
270	720	823	1029	1234	1440	1440	1440	1157	1388	1620	1620	1620	1620	1620	1620	1620	1620	1646	1646	1646	1646	2083
309	823	1029	1234	1440	1440	1440	1440	1157	1388	1620	1620	1620	1620	1620	1620	1620	1620	1851	1851	1851	1851	2083
347	926	1157	1388	1543	1800	1800	1800	1543	1543	1543	1543	1543	2057	2314	2314	2314	2057	2314	2314	2314	2546	3008
386	1029	1286	1414	1697	1980	1980	1980	1414	1414	1414	1414	1414	2057	2314	2314	2314	2057	2314	2314	2314	2546	3008
424	1131	1414	1543	1851	2160	2160	2160	1697	1697	1697	1697	1697	2263	2468	2468	2468	2263	2468	2468	2468	2777	3394
463	1233	1543	1851	2006	2340	2340	2340	1851	1851	1851	1851	1851	2468	2777	2777	2777	2468	2777	2777	2777	3008	3471
501	1337	1671	1800	2160	2520	2520	2520	2006	2006	2006	2006	2006	2674	3008	3008	3008	2674	3008	3008	3008	3677	4011
540	1440	1800	1928	2314	2700	2700	2700	2160	2160	2160	2160	2160	2880	3240	3240	3240	2880	3240	3240	3240	3960	4680
579	1543	1928	2314	2314	2700	2700	2700	2314	2314	2314	2314	2314	3086	3471	3471	3471	3086	3471	3471	3471	4243	5014
617	1646	2057	2468	2468	2880	2880	2880	2468	2468	2468	2468	2468	3291	3703	3703	3703	2880	3291	3291	3291	4525	5348

How large a bin shall I build to hold 800 bushels? is a very common question. To answer this and similar ones instantly is the object of above table, thus: How long a bin 8 feet wide and 8 feet high is required to hold 800 bushels of oats? Run down the 8-foot column until 823, the nearest amount to 800 bushels, is reached, and opposite, in the center column headed length, is 16, the length required.

For ear corn divide above quantities by 2; i.e., a bin 8x8x16 will hold only 411 bushels ear corn. For bins 10 feet high add $\frac{1}{4}$ to above.

Area of Openings

22"	24"		26"		28"		30"		32"		34"		36"	
	2' 0"	2' 0"	2' 2"	2' 2"	2' 4"	2' 4"	2' 6"	2' 6"	2' 8"	2' 8"	2' 10"	2' 10"	3' 0"	3' 0"
SQUARE FEET														
3.67	4.00	4.33	4.67	5.00	5.33	5.67	5.25	5.21	5.56	5.33	5.67	5.90	6.00	6.00
3.82	4.17	4.51	4.86	4.51	4.86	5.06	4.69	5.42	5.78	5.42	5.78	6.14	6.25	6.25
3.97	4.33	4.69	5.06	4.69	5.06	5.25	5.05	5.62	6.00	5.62	6.00	6.37	6.50	6.50
4.12	4.50	4.87	5.25	4.87	5.25	5.44	5.05	5.83	6.22	5.83	6.22	6.61	6.75	6.75
4.28	4.67	5.05	5.44	5.05	5.44	5.83	5.44	5.83	6.22	5.83	6.22	6.61	7.00	7.00
4.43	4.83	5.24	5.64	5.24	5.64	6.04	5.77	6.44	6.85	6.44	6.85	7.25	7.25	7.25
4.58	5.00	5.42	5.83	5.42	5.83	6.25	6.03	6.67	7.08	6.67	7.08	7.50	7.50	7.50
4.74	5.17	5.60	6.03	5.60	6.03	6.46	6.22	6.89	7.32	6.89	7.32	7.75	7.75	7.75
4.89	5.33	5.78	6.22	5.78	6.22	6.67	6.42	7.11	7.55	7.11	7.55	8.00	8.00	8.00
5.04	5.50	5.96	6.42	5.96	6.42	6.87	6.62	7.33	7.79	7.33	7.79	8.25	8.25	8.25
5.19	5.67	6.14	6.61	6.14	6.61	7.08	6.86	7.55	8.03	7.55	8.03	8.50	8.50	8.50
5.35	5.83	6.32	6.80	6.32	6.80	7.29	7.00	7.78	8.26	7.29	7.78	8.75	8.75	8.75
5.50	6.00	6.50	7.00	6.50	7.00	7.50	7.19	8.00	8.50	7.50	8.00	9.00	9.00	9.00
5.65	6.17	6.68	7.19	6.68	7.19	7.71	7.39	8.22	8.73	7.71	8.22	9.25	9.25	9.25
5.80	6.33	6.86	7.39	6.86	7.39	7.91	7.54	8.44	8.97	7.91	8.44	9.50	9.50	9.50
5.96	6.50	7.04	7.58	7.04	7.58	8.12	7.78	8.66	9.21	8.12	8.66	9.75	9.75	9.75
6.11	6.67	7.22	7.78	7.22	7.78	8.33	7.97	8.89	9.44	8.33	8.89	10.00	10.00	10.00
6.26	6.83	7.40	7.97	7.40	7.97	8.54	8.16	9.11	9.68	8.54	9.11	10.25	10.25	10.25
6.42	7.00	7.58	8.16	7.58	8.16	8.75	8.36	9.33	9.91	8.75	9.33	10.50	10.50	10.50
6.57	7.17	7.76	8.36	7.76	8.36	8.96	8.36	9.55	10.15	8.96	9.55	10.75	10.75	10.75
6.72	7.33	7.94	8.55	7.94	8.55	9.16	8.55	9.77	10.39	9.16	9.77	11.00	11.00	11.00
6.87	7.50	8.12	8.75	8.12	8.75	9.37	8.30	9.37	10.62	9.37	10.00	11.25	11.25	11.25
7.03	7.67	8.30	8.94	8.30	8.94	9.58	8.40	9.58	10.22	9.58	10.22	11.50	11.50	11.50
7.18	7.83	8.40	9.14	8.40	9.14	9.79	8.44	9.79	10.44	9.79	10.44	11.09	11.09	11.09
7.33	8.00	8.66	9.33	8.00	9.33	10.00	8.44	10.00	10.66	8.66	10.00	11.33	11.33	11.33

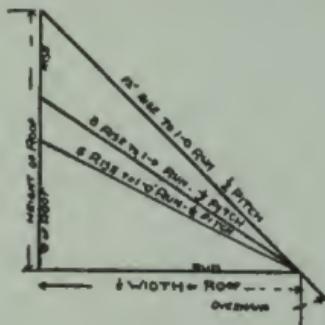
22'	24"	WIDE		26'		28"		HIGH	49"=4'	1"	30"		32"		34"		36"	
		SQUARE FEET	SQUARE FEET	SQUARE FEET	SQUARE FEET	SQUARE FEET	SQUARE FEET				SQUARE FEET	SQUARE FEET	SQUARE FEET	SQUARE FEET	SQUARE FEET	SQUARE FEET	SQUARE FEET	SQUARE FEET
7.48	8.17	8.84	9.52	10.21	10.88	11.57	12.25											
7.64	8.33	9.02	9.72	10.41	11.11	11.80	12.50											
7.79	8.50	9.20	9.91	10.62	11.33	12.04	12.75											
7.94	8.66	9.38	10.11	10.83	11.55	12.27	13.00											
8.09	8.83	9.56	10.30	11.04	11.77	12.51	13.25											
8.25	9.00	9.75	10.50	11.25	11.99	12.75	13.50											
8.40	9.16	9.93	10.69	11.45	12.22	12.98	13.75											
8.55	9.33	10.11	10.88	11.66	12.44	13.22	14.00											
8.71	9.50	10.29	11.06	11.87	12.66	13.45	14.25											
8.86	9.66	10.47	11.27	12.08	12.88	13.69	14.50											
9.01	9.83	10.65	11.47	12.29	13.10	13.93	14.75											
9.16	10.00	10.83	11.66	12.50	13.33	14.16	15.00											
9.32	10.16	11.01	11.86	12.70	13.55	14.40	15.25											
9.47	10.33	11.19	12.05	12.91	13.77	14.63	15.50											
9.62	10.50	11.37	12.24	13.12	13.99	14.87	15.75											
9.77	10.66	11.55	12.44	13.33	14.21	15.11	16.00											
9.93	10.83	11.73	12.63	13.54	14.44	15.34	16.25											
10.08	11.00	11.91	12.83	13.74	14.66	15.58	16.50											
10.23	11.16	12.09	13.02	13.95	14.88	15.81	16.75											
10.39	11.33	12.27	13.22	14.16	15.10	16.05	17.00											
10.54	11.50	12.45	13.41	14.37	15.32	16.29	17.25											
10.69	11.66	12.63	13.60	14.58	15.55	16.52	17.50											
10.84	11.83	12.81	13.80	14.79	15.77	16.76	17.75											
11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00											

Explanation—For the square feet in an opening 36 by 58 inches read in the 36-inch column opposite 58 in the center 14.50.

Roof Pitches

This diagram shows the three standard roof pitches that are used by all carpenters who put up buildings. But some good workmen are not sure of all the terms that are used to describe them.

Pitch means the angle or slant of the rafters in a straight line from the eaves to the peak of the roof.



Rise means the vertical elevation of the rafter at a given point. The term "rise" is always used in connection with the term "run." A roof rises a certain number of inches to each foot of the run.

Run is the horizontal measurement from the plate to the center line of the building.

Rise is the vertical climb of the rafter expressed in feet.

For example, the rise of a half pitch roof is equal to the run, which means that the distance from the plate to the center line of the building is the same as the distance from the center line to the peak. The rise of a one-quarter pitch roof is just half as much.

The Actuary Way to Figure Roof Spaces

The exact area of any roof, regardless of its shape, no matter how it may be cut up, is accurately determined as follows. Get the exact area from outside to outside of the walls on the level of the plates on which the rafters rest and add for the different roof pitches as follows:

One-fourth pitch add to area on square....12 per cent

One-third pitch add to area on square....20 per cent

One-half pitch add to area on square....42 per cent

Three-eighths pitch add to area on square.25 per cent

Five-eighths pitch add to area on square...60 per cent

Three-fourths pitch add to area on square.80 per cent

To the results thus obtained add the cornice projection all round. This gives the roof area sufficiently accurate for all practical purposes. For illustration, take a third pitch hip-roof—building 30 by 30 or 900 square feet at the square. Adding 20 per cent, or 180, gives 1080 as the roof area, including all dormers but excluding all cornice projections. Had there been a deck 5 by 6, or 30 square feet, then 30 plus 20 per cent should be deducted or 36 feet from 1080 = 1044 as the roof area, exclusive of deck and cornice projections.

Actuary's Estimate Tables

To Find Quantities of Lumber Required

STUDDING on 16 inch centers. Estimate one to the lineal foot. This allows for doubling at openings and at corners.

JOISTS AND RAFTERS on 16 inch centers. To $\frac{3}{4}$ of the length of the building add 1, thus: For a building 16x32, $\frac{3}{4}$ of 32 = 24, to which add 1, or 25, being the joists required, or the rafters for 1 side. Add 1 or 2 for each bearing partition.

ROOF SHEATHING LAID SOLID. To full area of roof add 10 per cent for waste. If laid 2 inches apart $\frac{3}{4}$ of above will be required.

ARTICLE	Count Width	Face Width	Loss in Matching	To area to be Covered Add
Shiplap.....	12 inch	11 $\frac{1}{4}$	7 %	1-12
"	10 "	9 $\frac{1}{4}$	8 $\frac{1}{3}$ "	1-10
"	8 "	7 $\frac{1}{4}$	11 "	1-8
"	6 "	5 $\frac{1}{4}$	12 $\frac{1}{2}$ "	1-5
Flooring.....	6 "	5 $\frac{1}{4}$	12 $\frac{1}{2}$ "	1-5
"	4 $\frac{1}{4}$ "	3 $\frac{1}{2}$	18 "	$\frac{1}{4}$
"	4 "	3 $\frac{1}{4}$	19 "	$\frac{1}{4}$
"	3 "	2 $\frac{1}{4}$	25 "	$\frac{1}{3}$
"	2 $\frac{3}{4}$ "	2	27 "	$\frac{1}{3}$
"	2 $\frac{1}{2}$ "	2	20 "	$\frac{1}{4}$
"	2 "	1 $\frac{1}{2}$	25 "	$\frac{1}{3}$

Drop siding, ceiling, and partition same as above.

ARTICLE	Size	Exposed	To area to be Covered Add
Siding, beveled	$\frac{1}{2} \times 4$	$3\frac{1}{4}$ inch	$\frac{1}{4}$
" "	$\frac{1}{2} \times 4$	3 " "	$\frac{1}{3}$
" "	$\frac{1}{2} \times 4$	$2\frac{3}{4}$ "	$\frac{1}{2}$
" "	$\frac{1}{2} \times 5$	$4\frac{1}{4}$ "	1-5
" "	$\frac{1}{2} \times 5$	4 "	$\frac{1}{4}$
" "	$\frac{1}{2} \times 5$	$3\frac{3}{4}$ "	$\frac{1}{3}$
" "	$\frac{1}{2} \times 6$	$5\frac{1}{4}$ "	1-5
" "	$\frac{1}{2} \times 6$	5 "	9-40
" "	$\frac{1}{2} \times 6$	$4\frac{3}{4}$ "	$\frac{1}{4}$

SHINGLES

When exposed

4"	to the weather require 9	to the sq. ft.	Add 1-10 for Waste
$4\frac{1}{2}$ "	" " "	8 " " " "	
5"	" " "	$7\frac{1}{5}$ " " " "	
$5\frac{1}{2}$ "	" " "	$6\frac{1}{2}$ " " " "	
6"	" " "	6 " " " "	

CORNICES. Multiply the total lineal feet, by the combined width of planceer, frieze, and fascia thus: If the planceer is 12 inches, the frieze 8 inches, and the fascia 4 inches, the combined width is 24 inches or 2 feet b. m. to the lineal foot of cornice.

CORNER BOARDS AND OUTSIDE BASE. Estimate on same plan as cornices and then add $\frac{1}{4}$ if of $1\frac{1}{4}$ or $\frac{1}{2}$ if of $1\frac{1}{2}$ stuff.

BRIDGING. Multiply the total lineal feet, measuring each string in a straight line by the following:

For 2x6, 2x8 or 2x10 on 16 inch centers by 2

" 2x12	16 "	" "	$2\frac{1}{4}$
" 2x14	16 "	" "	$2\frac{1}{2}$
" 2x6 and 2x8	12 "	" "	2
" 2x10 and 2x12	12 "	" "	$2\frac{1}{4}$
" 2x14	12 "	" "	$2\frac{2}{3}$

LATTICE

$1\frac{1}{8}$ wide multiply area by 12 for lineal feet required.

$1\frac{3}{8}$ "	" "	" "	10 "	" "	" "
$1\frac{3}{4}$ "	" "	" "	8 "	" "	" "

LATH

Lath when laid $\frac{3}{8}$ inch apart, as for lime, require $1\frac{1}{2}$ to the square foot, or $16\frac{1}{2}$ to the square yard to which add 4% for waste, making practically 14 to the square yard. So to find the lath required increase the square feet to be lathed by $\frac{1}{2}$ thus: 900 square feet require $900 + \frac{1}{2}$ of 900 or 1350 lath plus 4% = 1404.

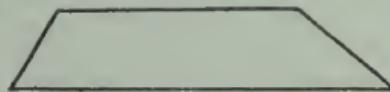
When laid $\frac{1}{4}$ inch apart, as for cement plasters, require 7 per cent more lath.

When there are no openings add 10 per cent to amount obtained by above.

Tapering Lumber

How to Figure Trapezoids, or Boards With Only Two Parallel Sides

Find the Board Measure contents of a board one inch thick, whose parallel sides are 16 feet and 20 feet in length and 8 inches wide.



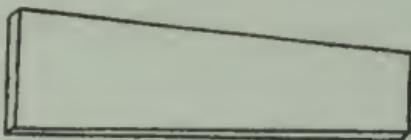
Add together the two parallel sides, and divide their sum by 2, multiply the result by the inches in width and divide by 12. The answer is 12 feet Board Measure contents :

Operation:

$$\begin{array}{r}
 16 \\
 20 \\
 \hline
 2) \ 36 \\
 \hline
 18 \\
 8 \\
 \hline
 12) \ 144 \\
 \hline
 \end{array}$$

12 ft. Board Measure.

Find the Board Measure contents of a board one inch thick, 24 feet long whose parallel ends are 10 inches and 18 inches respectively.



Operation:

$$\begin{array}{r} 10 \\ 18 \\ \hline 2) \ 28 \\ \hline 14 \\ 24 \\ \hline 12) \ 336 \\ \hline \end{array}$$

28 ft. Board Measure.

American Steel & Wire Company

7-Foot Ceilings

3	4	FEET WIDE				7	8	9	10	FEET WIDE			
		5	6	7	8					11	12	13	14
AREA SQUARE FEET		Feet Long				AREA SQUARE FEET		Feet Wide					
93	110	127	144	161	178	3	195	212	229	246	263	280	
110	128	146	164	182	200	4	218	236	254	272	290	308	
127	146	165	184	203	222	5	241	260	279	298	317	336	
144	164	184	204	224	244	6	264	284	304	324	344	364	
161	182	203	224	245	266	7	287	308	329	350	371	392	
178	200	222	244	266	288	8	310	332	354	376	398	420	
195	218	241	264	287	310	9	333	356	379	402	425	448	
212	236	260	284	308	332	10	356	380	404	428	452	476	
229	254	279	304	329	354	11	379	404	429	454	479	594	
246	272	298	324	350	376	12	402	428	454	480	506	532	
263	290	317	344	371	398	13	425	452	479	506	533	560	
280	308	336	364	392	420	14	448	476	504	532	560	588	
297	326	355	384	413	442	15	471	500	529	558	587	616	
314	344	374	404	434	464	16	494	524	554	584	614	644	
331	362	393	424	455	486	17	517	548	579	610	641	672	
348	380	412	444	476	508	18	540	572	604	636	668	700	
365	398	431	464	497	530	19	563	596	629	662	695	728	
382	416	450	484	518	552	20	586	620	654	688	722	756	
399	434	469	504	539	574	21	609	644	679	714	749	784	
416	452	488	524	560	596	22	632	668	704	740	776	812	
433	470	507	544	581	618	23	655	692	729	766	803	840	
450	488	526	564	602	640	24	678	716	754	792	830	868	
467	506	545	584	623	662	25	701	740	779	818	857	896	
484	524	564	604	644	684	26	724	764	804	844	884	924	
501	542	583	624	665	706	27	747	788	829	870	911	952	
518	560	602	644	686	728	28	770	812	854	896	938	980	
535	578	621	664	707	750	29	793	836	879	922	965	1008	
552	596	640	684	728	772	30	816	860	904	948	992	1036	

Square Feet in the Ceiling and Four Walls of Rooms—Cont.

7-Foot Ceilings

15	16	FEET WIDE		7-Foot Ceilings				23	24	25	26	
		17	18	19	20	Feet Long	3	4	5	6	7	8
297	314	331	348	365	382	399	416	433	450	467	484	
326	344	362	380	398	416	434	452	470	488	506	524	
355	374	393	412	431	450	469	488	507	526	545	564	
384	404	424	444	464	484	504	524	544	564	584	604	
413	434	455	476	497	518	539	560	581	602	623	644	
442	464	486	508	530	552	574	596	618	640	662	684	
471	494	517	540	563	586	609	632	655	678	701	724	
500	524	548	572	596	620	644	668	692	716	740	764	
529	554	579	604	629	654	679	704	729	754	779	804	
558	584	610	636	662	688	714	740	766	792	818	844	
587	614	641	668	695	722	749	776	803	830	857	884	
616	644	672	700	728	756	784	812	840	868	896	924	
645	674	703	732	761	790	819	848	877	906	935	964	
674	704	734	764	794	824	854	884	914	944	974	1004	
703	734	765	796	827	858	889	920	951	982	1013	1044	
732	764	796	828	860	892	924	956	988	1020	1052	1084	
761	794	827	860	893	926	959	992	1025	1058	1091	1124	
790	824	858	892	926	960	994	1028	1062	1096	1130	1164	
819	854	889	924	959	994	1029	1064	1099	1134	1169	1204	
848	884	920	956	992	1028	1064	1100	1136	1172	1208	1244	
877	914	951	988	1025	1062	1099	1136	1173	1210	1247	1284	
906	944	982	1020	1058	1096	1134	1172	1210	1248	1286	1324	
935	974	1013	1052	1091	1130	1169	1208	1247	1286	1325	1364	
964	1004	1044	1084	1124	1164	1204	1244	1284	1324	1364	1404	
993	1034	1075	1116	1157	1198	1239	1280	1321	1362	1403	1444	
1022	1064	1106	1148	1190	1232	1274	1316	1358	1400	1442	1484	
1051	1094	1137	1180	1223	1266	1309	1352	1395	1438	1481	1521	
1080	1124	1168	1212	1256	1300	1344	1388	1432	1476	1520	1564	

Explanation—For the total square feet in a room 20 feet wide and 30 feet long, ceiling 7 feet high, run down the 20-ft. column and opposite 30 read 1300 square feet.

American Steel & Wire Company

8-Foot Ceilings

3	4	FEET WIDE			8-Foot Ceilings			FEET WIDE			
		5	6	7	8	9	10	11	12	13	14
105	124	143	162	181	200	219	238	257	276	295	314
124	144	164	184	204	224	244	264	284	304	324	344
143	164	185	206	227	248	269	290	311	332	353	374
162	184	206	228	250	272	294	316	338	360	382	404
181	204	227	250	273	296	319	342	365	388	411	434
200	224	248	272	296	320	344	368	392	416	440	464
219	244	269	294	319	344	369	394	419	444	469	494
238	264	290	316	342	368	394	420	446	472	498	524
257	284	311	338	365	392	419	446	473	500	527	554
276	304	332	360	388	416	444	472	500	528	556	584
295	324	353	382	411	440	469	498	527	556	585	614
314	344	374	404	434	464	494	524	554	584	614	644
333	364	395	426	457	488	519	550	581	612	643	674
352	384	416	448	480	512	544	576	608	640	672	704
371	404	437	470	503	536	569	602	635	668	701	734
390	424	458	492	526	560	594	628	662	696	730	764
409	444	479	514	549	584	619	654	689	724	759	794
428	464	500	536	572	608	644	680	716	752	788	824
447	484	521	558	595	632	669	706	743	780	817	854
466	504	542	580	618	656	694	732	770	808	846	884
485	524	563	602	641	680	719	758	797	836	875	914
504	544	584	624	664	704	744	784	824	864	904	944
523	564	605	646	687	728	769	810	851	892	933	974
542	584	626	668	710	752	794	836	878	920	962	1004
561	604	647	690	733	776	819	862	905	948	991	1034
580	624	668	712	756	800	844	888	932	976	1020	1064
599	644	689	734	779	824	869	914	959	1004	1049	1094
618	664	710	756	802	848	894	940	986	1032	1078	1124

Square Feet in the Ceiling and Four Walls of Rooms—Cont.

8-Foot Ceilings

15	16	FEET WIDE		FEET WIDE		FEET WIDE		FEET WIDE		FEET WIDE	
		17	18	19	20	21	22	23	24	25	26
333	352	371	390	409	428	447	466	485	504	523	542
364	384	404	424	444	464	484	504	524	544	564	584
395	416	437	458	479	500	521	542	563	584	605	626
426	448	470	492	514	536	558	580	602	624	646	668
457	480	503	526	549	572	595	618	641	664	687	710
488	512	536	560	584	608	632	656	680	704	728	752
519	544	569	594	619	644	669	694	719	744	769	794
550	576	602	628	654	680	706	732	758	784	810	836
581	608	635	662	689	716	743	770	797	824	851	878
612	640	668	696	724	752	780	808	836	864	892	920
643	672	701	730	759	788	817	846	875	904	933	962
674	704	734	764	794	824	854	884	914	944	974	1004
705	736	767	798	829	860	891	922	953	984	1015	1046
736	768	800	832	864	896	928	960	992	1024	1056	1088
767	800	833	866	899	932	965	998	1031	1064	1097	1130
798	832	866	900	934	968	1002	1036	1070	1104	1138	1172
829	864	899	934	969	1004	1039	1074	1109	1144	1179	1214
860	896	932	968	1004	1040	1076	1112	1148	1184	1220	1256
891	928	965	1002	1039	1076	1113	1150	1187	1224	1261	1298
922	960	998	1036	1074	1112	1150	1188	1226	1264	1302	1340
953	992	1031	1070	1109	1148	1187	1226	1265	1304	1343	1382
984	1024	1064	1104	1144	1184	1224	1264	1304	1344	1384	1424
1015	1056	1097	1138	1179	1220	1261	1302	1343	1384	1425	1466
1046	1088	1130	1172	1214	1256	1298	1340	1382	1424	1466	1508
1077	1120	1163	1206	1249	1292	1335	1378	1421	1464	1507	1550
1108	1152	1196	1240	1284	1328	1372	1416	1460	1504	1548	1592
1139	1184	1229	1274	1319	1364	1409	1454	1499	1544	1589	1634
1170	1216	1262	1308	1354	1400	1446	1492	1538	1584	1630	1676

Explanation—For the total square feet in a room 20 feet wide and 30 feet long, ceiling 8 feet high, run down the 20-ft column and composite 30' read 1400 square feet.

LENGTH

American
Steel & Wire
Company's
Steel Wire
Gauge

	3/16	1/4	5/16	1/2	5/8	3/4	7/8	1	1 1/8	1 1/4	1 1/2	1 3/4	2
1/8								29	26	23	20	17	15
5/16								43	38	34	29	25	22
1								47	44	40	34	29	26
2								60	54	48	41	35	31
3								67	60	55	47	41	36
4								81	74	66	55	48	41
5								90	81	74	61	52	45
6								101	91	76	65	58	
7								113	101	91	76	65	
8								128	113	101	91	76	
9								149	132	120	110	92	
10								205	174	148	132	110	
11								238	198	174	153	139	
12								286	238	213	185	170	
13								348	373	320	277	242	
14								469	366	323	285	254	
15								510	417	366	323	285	
16								740	603	511	442	397	
17								1017	802	688	590	508	
18								1356	1290	1037	863	765	
19								2293	1664	1316	1132	971	
20								2899	2213	1619	1316	1132	
21								3932	2720	2142	1708	1414	
22								5316	3890	2700	2306	1904	
23								7520	5072	3824	3130	2608	
24								9920	6860	5075	4132	3508	
25								18620	14050	9432	7164	5686	
								23260	17252	12000	8920	7232	
								28528	21508	14676	11776	9276	
								35864	27039	18026	13519	10815	
								44936	34018	22678	17008	13607	
								57357	43243	28828	21622	17297	

These approximate numbers are an *Average* only, and the figures given may be varied either way, by changes in the dimensions of the heads or points. Brads and no-head nails will run more to the pound than table shows, and large or thick headed nails will run less.

Approximate Number of Wire Nails per Pound—Cont.

American Steel & Wire Co.'s Steel Wire Gauge	LENGTH													
	2 1/4	2 1/2	2 3/4	3	3 1/2	4	4 1/2	5	6	7	8	9	10	11	12
3/8	1.5	12	11	11	8.9	7.9	7.1	6.4	5.2	4.5	4.0	3.4	3.2	2.9
5/16	20	18	16	15	13	11	10	9.0	7.6	6.5	5.7	5.0	4.5	4.1
1	23	21	20	18	16	14	12	11	9.3	8.0	7.0	6.3	5.7	5.2
2	28	25	23	21	18	16	14	13	11	9.3	8.1	7.2	6.6	6.1
3	32	29	27	25	21	18	16	15	12	11	9.4	8.3	7.6	7.1
4	37	34	31	29	25	22	20	18	15	13	11	9.8	8.9	8.1
5	41	38	35	32	28	24	22	21	18	16	14	12	11	9.6
6	52	47	43	39	34	29	26	24	20	18	16	15	13	11
7	61	55	51	47	40	35	31	28	24	19	18	16	14	13
8	74	66	61	56	48	42	38	34	28	24	21	19	17	15
9	87	79	71	67	58	50	45	41	34	29	25	23	21	19
10	111	100	91	84	71	62	55	49	42	36	31	27	25	23
11	136	122	111	103	87	77	69	61	52	44	39	35	31	29
12	182	161	149	137	118	103	95	87	71	63	56	50	45	40
13	232	209	190	175	153	138	123	110	93	83	76	69	62	56
14	312	278	256	233	201	176	157	140	117	104	96	88	80	72
15	390	351	317	290	246	220	196	177	145	125	108	99	90	81
16	496	452	410	370	318	277	248	226	196	177	157	138	120	102
17	666	590	532	486	418	360	322	295	268	248	226	205	184	162
18	890	820	740	680	585	507	448	412	375	348	320	292	264	232
19	1205	1060	970	895	800	715	630	550	475	412	350	300	250	200
20	1620	1450	1315	1215	1035	900	780	650	550	450	350	280	200	150
21	2020	1830	1650	1450	1250	1050	850	700	550	450	350	280	200	150
22	22	22	22	22	22	22	22	22	22	22	22	22	22	22
23	23	23	23	23	23	23	23	23	23	23	23	23	23	23
24	24	24	24	24	24	24	24	24	24	24	24	24	24	24
25	25	25	25	25	25	25	25	25	25	25	25	25	25	25

These approximate numbers are an *Average* only, and the figures given may be varied either way; by changes in the dimensions of the heads or points. Brads and no-head nails will run more to the pound than table shows, and large

Sizes of Wire

American Steel & Wire Co.'s Steel Wire Gauge

American Steel & Wire Company's STEEL WIRE GAUGE No.	SIZES OF WIRE		Weight One Mile Pounds	Pounds per Foot	Feet to Pound
	Common Fractions	Decimally			
1		.2830	1128.0	.2136	4.681
	$\frac{9}{32}$	.28125	1114.0	.211	
2		.2625	970.4	.1838	5.441
	$\frac{1}{4}$	.250	880.2	.1667	
3		.2437	836.4	.1584	6.313
		.2253	714.8	.1354	7.386
4		.21875	673.9	.1276	
	$\frac{7}{32}$	.2070	603.4	.1143	8.750
5		.1920	519.2	.0983	10.17
	$\frac{3}{16}$	.1875	495.1	.0937	
6		.1770	441.2	.0835	11.97
		.1620	369.6	.070	14.29
8		.15625	343.8	.0651	
	$\frac{5}{32}$	.1483	309.7	.0586	17.05
9		.1350	256.7	.0486	20.57
	$\frac{1}{8}$	.1250	220.0	.0416	
10		.1205	204.5	.0387	25.82
		.1055	156.7	.0296	33.69
12		.09375	123.8	.0234	
	$\frac{3}{32}$	.0915	117.9	.0223	44.78
13		.0800	90.13	.0170	58.58
		.0720	73.01	.0138	72.32
14		.0625	55.0	.0104	95.98
	$\frac{1}{16}$	.0540	41.07	.0077	128.6
17		.0475	31.77	.006	166.2
		.0410	23.67	.0044	223.0
18		.0348	17.05	.0032	309.6
19					
20					

List of Other Products

Made by

American Steel & Wire Company

for which

separate illustrated catalogues are issued

Electrical Wires and Cables	Rail Bonds
Rubber Covered Wire— Americore, Amerite.	Bale Ties
Ignition Wire	Aerial Tramways
Magnet Wire	Tacks
Perfected—Telephone and Telegraph Wire	Woven Wire Fences—Zinc Insulated
Trolley Wire	Fence Gates
Signal Wire	Corn Cribs
Radio Wire	Steel Fence Posts
American Wire Rope	Concrete Reinforcement
Wire Strand	Stucco Reinforcement
Airplane Wire and Strand	Springs
Piano Wire—Perfected	Clothes Lines
Pipe Organ Wire	Sulphate of Iron
Mattress Wire	Wire Rods
Weaving Wire	Welding Wire
Broom Wire	Screw Stock
Flat Wire—Cold Rolled Strip Steel	Cold Drawn Steel— round, square, hexagon, special shapes
Fence Wire	Poultry Netting
Spoke Wire for Wire Wheels	Fox Farm Netting
Wire Hoops	Wire of Every Description

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